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variety of uses well known in the art and decribed further below. For instance, SEQ ID NO:X has uses including, but not limited to, in designing nucleic acid hybridization probes that will detect nucleic acid sequences contained in SEQ ID NO:X or the related cDNA clone contained in a library deposited with the ATCC. These probes will also hybridize to nucleic acid molecules in biological samples, thereby enabling immediate applications in chromosome mapping, linkage analysis, tissue identification and/or typing, and a variety of forensic and diagnostic methods of the invention. Similarly, polypeptides identified from SEQ ID NO:Y have uses that include, but are not limited to, generating antibodies which bind specifically to the prostate cancer antigen polypeptides, or fragments thereof, and/or to the prostate cancer antigen polypeptides encoded by the cDNA clones identified in Table I.

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Nevertheless. DNA sequences generated by sequencing reactions can contain sequencing errors. The errors exist as misidentified nucleotides, or as insertions or deletions of nucleotides in the generated DNA sequence. The erroneously inserted or deleted nucleotides cause frame shifts in the reading frames of the predicted amino acid sequence. In these cases, the predicted amino acid sequence diverges from the actual amino acid sequence, even though the generated DNA sequence may be greater than 99.9% identical to the actual DNA sequence (for example, one base insertion or deletion in an open reading frame of over 1000 bases).

Accordingly, for those applications requiring precision in the nucleotide sequence or the amino acid sequence, the present invention provides not only the generated nucleotide sequence identified as SEQ ID NO:X, the predicted translated amino acid sequence identified as SEQ ID NO:Y, but also a sample of plasmid DNA containing the related cDNA clone (deposited with the ATCC, as set forth in Table 1). The nucleotide sequence of each deposited clone can readily be determined by sequencing the deposited clone in accordance with known methods. Further, techniques known in the art can be used to verify the nucleotide sequences of SEQ ID NO:X.

The predicted amino acid sequence can then be verified from such deposits. Moreover, the amino acid sequence of the protein encoded by a particular clone can also be directly determined by peptide sequencing or by expressing the protein in a suitable host cell containing the deposited human cDNA, collecting the protein, and determining its sequence.

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The present invention also relates to vectors or plasmids which include such DNA sequences, as well as the use of the DNA sequences. The material deposited with the ATCC on:

## 5 Table 2

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ATCC Deposits	Deposit	ATCC Designation Number
	Date	
LP01, LP02, LP03, LP04,	May-20-97	209059, 209060, 209061, 209062, 209063,
LP05. LP06, LP07, LP08,		209064, 209065, 209066, 209067, 209068,
LP09, LP10, LP11,		209069
LP12	Jan-12-98	209579
LP13	Jan-12-98	209578
LP14	Jul-16-98	203067
LP15	Jul-16-98	203068
LP16	Feb-1-99	203609
LP17	Feb-1-99	203610
LP20	Nov-17-98	203485
LP21	Jun-18-99	PTA-252
LP22	Jun-18-99	PTA-253
LP23	Dec-22-99	PTA-1081

each is a mixture of cDNA clones derived from a variety of human tissue and cloned in either a plasmid vector or a phage vector, as shown in Table 5. These deposits are referred to as "the deposits" herein. The tissues from which the clones were derived are listed in Table 5, and the vector in which the cDNA is contained is also indicated in Table 5. The deposited material includes the cDNA clones which were partially sequenced and are related to the SEQ ID NO:X described in Table 1 (column 9). Thus, a clone which is isolatable from the ATCC Deposits by use of a sequence listed as SEQ ID NO:X may include the entire coding region of a human gene or in other cases such clone may include a substantial portion of the coding region of a human gene. Although the sequence listing lists only a portion of the DNA sequence in a clone included in the ATCC Deposits, it is well within the ability of one

ATCC Deposits by use of a sequence (or portion thereof) listed in Table 1 by procedures hereinafter further described, and others apparent to those skilled in the art.

Also provided in Table 5 is the name of the vector which contains the cDNA clone. Each vector is routinely used in the art. The following additional information is provided for convenience.

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Vectors Lambda Zap (U.S. Patent Nos. 5,128,256 and 5,286,636), Uni-Zap XR (U.S. Patent Nos. 5,128, 256 and 5,286,636), Zap Express (U.S. Patent Nos. 5,128,256 and 5,286,636), pBluescript (pBS) (Short, J. M. et al., Nucleic Acids Res. 16:7583-7600 (1988); Alting-Mees, M. A. and Short, J. M., Nucleic Acids Res. 17:9494 (1989)) and pBK (Alting-Mees, M. A. et al., Strategies 5:58-61 (1992)) are commercially available from Stratagene Cloning Systems, Inc., 11011 N. Torrey Pines Road, La Jolla, CA, 92037. pBS contains an ampicillin resistance gene and pBK contains an neomycin resistance gene. Phagemid pBS may be excised from the Lambda Zap and Uni-Zap XR vectors, and phagemid pBK may be excised from the Zap Express vector. Both phagemids may be transformed into E. coli strain XL-1 Blue, also available from Stratagene.

Vectors pSport1, pCMVSport 1.0, pCMVSport 2.0 and pCMVSport 3.0, were obtained from Life Technologies, Inc., P. O. Box 6009, Gaithersburg, MD 20897. All Sport vectors contain an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, also available from Life Technologies. See, for instance, Gruber, C. E., et al., Focus 15:59 (1993). Vector lafmid BA (Bento Soares, Columbia University, New York, NY) contains an ampicillin resistance gene and can be transformed into *E. coli* strain XL-1 Blue. Vector pCR®2.1, which is available from Invitrogen, 1600 Faraday Avenue, Carlsbad, CA 92008, contains an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, available from Life Technologies. See, for instance, Clark, J. M., Nuc. Acids Res. 16:9677-9686 (1988) and Mead, D. et al., Bio/Technology 9: (1991).

The present invention also relates to the genes corresponding to SEQ ID NO:X, SEQ ID NO:Y, and/or the cDNA contained in a deposited cDNA clone. The corresponding gene can be isolated in accordance with known methods using the sequence information disclosed herein. Such methods include, but are not limited to, preparing probes or primers from the disclosed sequence and identifying or amplifying the corresponding gene from appropriate sources of genomic material.

Also provided in the present invention are allelic variants, orthologs, and/or species homologs. Procedures known in the art can be used to obtain full-length genes, allelic variants, splice variants, full-length coding portions, orthologs, and/or species homologs of genes corresponding to SEQ ID NO:X, SEQ ID NO:Y, and/or the cDNA contained in the related cDNA clone in the deposit, using information from the sequences disclosed herein or the clones deposited with the ATCC. For example, allelic variants and/or species homologs may be isolated and identified by making suitable probes or primers from the sequences provided herein and screening a suitable nucleic acid source for allelic variants and/or the desired homologue.

The present invention provides a polynucleotide comprising, or alternatively consisting of, the nucleic acid sequence of SEQ ID NO:X, and/or the related cDNA clone (See, e.g., columns 1 and 9 of Table 1). The present invention also provides a polypeptide comprising, or alternatively, consisting of, the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X, and/or a polypeptide encoded by the cDNA in the related cDNA clone contained in a deposited library. Polynucleotides encoding a polypeptide comprising, or alternatively consisting of, the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X, and/or a polypeptide encoded by the the dDNA in the related cDNA clone contained in a deposited library, are also encompassed by the invention. The present invention further encompasses a polynucleotide comprising, or alternatively consisting of, the complement of the nucleic acid sequence of SEQ ID NO:X, and/or the complement of the coding strand of the related cDNA clone contained in a deposited library.

Many polynucleotide sequences, such as EST sequences, are publicly available and accessible through sequence databases and may have been publicly available prior to conception of the present invention. Preferably, such related polynucleotides are specifically excluded from the scope of the present invention. To list every related sequence would unduly burden the disclosure of this application. Accordingly, for each "Contig Id" listed in the first column of Table 3, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described in the second column of Table 3 by the general formula of a-b, each of which are uniquely defined for the SEQ ID NO:X corresponding to that Contig Id in Table 1. Additionally, specific embodiments are directed to polynucleotide sequences excluding at least one, two, three, four, five, ten, or more of the specific polynucleotide sequences referenced by the Genbank Accession No. for each Contig Id which may be

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included in column 3 of Table 3. In no way is this listing meant to encompass all of the sequences which may be excluded by the general formula. It is just a representative example.

Table 3.

Sequence/	General formula	Genbank Accession No.
Contig ID		
574130	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
i	nucleotide sequence described by the general	
l	formula of a-b. where a is any integer between 1 to	
I	703 of SEQ ID NO:1, b is an integer of 15 to 717.	
l	where both a and b correspond to the positions of	
	nucleotide residues shown in SEQ ID NO:1, and	
	where b is greater than or equal to a + 14.	
637706	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1611 of SEQ ID NO:2, b is an integer of 15 to	
]	1625, where both a and b correspond to the	
1	positions of nucleotide residues shown in SEO 1D	
i	NO:2, and where b is greater than or equal to a +	
638162	Preferably excluded from the present invention are	R78923, R79022, H78714, H78726,
638162		H79487, H79500, H86682, H99479,
I		N22197, N28292, N48317, N49043,
		N79526, W16679, AA017524.
		AA017582, AA215755, AA463914
	2435, where both a and b correspond to the	MAU17302, MA213733, MA403914
	positions of nucleotide residues shown in SEQ ID	
	NO:3, and where b is greater than or equal to a +	
	14.	
684310	Preferably excluded from the present invention are	R00703, R79938, R80028, N75501,
	one or more polynucleotides comprising a	N99910, W25289
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between I to	
	972 of SEQ ID NO:4. b is an integer of 15 to 986,	
	where both a and b correspond to the positions of	
	nucleotide residues shown in SEQ ID NO:4, and	
	where b is greater than or equal to a + 14.	
731016	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to 356 of SEO ID NO:5, b is an integer of 15 to 370,	
	where both a and b correspond to the positions of	
	nucleotide residues shown in SEO ID NO:5, and	
	where b is greater than or equal to a + 14.	
827771	Preferably excluded from the present invention are	
02,771	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
1	formula of a-b. where a is any integer between 1 to	
	497 of SEQ ID NO:6, b is an integer of 15 to 511.	
	where both a and b correspond to the positions of	
1	nucleotide residues shown in SEQ ID NO:6, and	
1	where b is greater than or equal to a + 14.	
828193	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	

828236	Preferably excluded from the present invention are one or more polynucleotides comprising a	
828235	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1482 of SEQ ID NO:11, b is an integer of 15 to 1496, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:11, and where b is greater than or equal to a + 14.	AAM\$157, AA2\$2563, AA\$73229, AA935280
828199		T47410. T54389, T54694, T47411. T54281. T54610, T58667, T58667, T578667, T78082. T78249, T80551, R28515, R28665, R38862. R54617, R54680, D81812. H08113. H16261, H16460, H22343. H22344. H29551, H29643, H2933. H41950, R83220, R83212, R85675, R89016, R89017, R99602, R85675, R89016, R89017, R99667, W35705, W64654, W31578, W35459, M66610, N73945, N76670, W3705, W64654, W31578, W38370, W39494, W39512, W39513, AA024819, AA024925, AA033860, AA076628, AA159000, AA19455, AA257006, AA25275, AA483288, AA597139, AA522771, AA527181, AA534797, AA541666, AA614359, AA614596, AA622977, AA562953, AA659935, AA576092, AA659393, AA8664314, AA94006, AA911931, AA916611, AA932076, AA991541,
828194	nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 704 of SEQ ID NO.7. b is an integer of 15 or 718, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.7. and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 431 of SEQ ID NO.8. b is an integer of 15 to 445, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.8, and where b is a reaser than or equal to a + 14.	
	nucleotide sequence described by the general	

	nucleotide sequence described by the general	
i	formula of a-b, where a is any integer between 1 to	
	1413 of SEO ID NO:12, b is an integer of 15 to	
1	1427, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:12, and where b is greater than or equal to a +	
	14.	
828237	Preferably excluded from the present invention are	
020257	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	1
	formula of a-b, where a is any integer between I to	1
	3534 of SEQ ID NO:13, b is an integer of 15 to	
	3548, where both a and b correspond to the	
ĺ	positions of nucleotide residues shown in SEQ ID	
ł	NO:13, and where b is greater than or equal to a +	
I	14.	
828239	Preferably excluded from the present invention are	l
02023)	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
l	formula of a-b, where a is any integer between 1 to	1
1	452 of SEQ ID NO:14, b is an integer of 15 to 466,	
1	where both a and b correspond to the positions of	
	nucleotide residues shown in SEO ID NO:14, and	
	where b is greater than or equal to a + 14.	
828242	Preferably excluded from the present invention are	
020242	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
i	850 of SEO ID NO:15, b is an integer of 15 to 864,	i
	where both a and b correspond to the positions of	
	nucleotide residues shown in SEO ID NO:15, and	
1	where b is greater than or equal to a + 14.	
828247	Preferably excluded from the present invention are	
020247	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	ļ
	2791 of SEQ ID NO:16, b is an integer of 15 to	i
	2805, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:16, and where b is greater than or equal to a +	
	14.	
828248	Preferably excluded from the present invention are	T66275, R11733, H10020, H10293,
020240	one or more polynucleotides comprising a	AA054067, AA127524, AA192628
	nucleotide sequence described by the general	1 100 1007, 121121321, 121132020
	formula of a-b, where a is any integer between 1 to	
	696 of SEQ ID NO:17, b is an integer of 15 to 710,	
	where both a and b correspond to the positions of	
	nucleotide residues shown in SEQ ID NO:17, and	
	where b is greater than or equal to a + 14.	
828250	Preferably excluded from the present invention are	T52330, T52406, H58954, H59892,
020230	one or more polynucleotides comprising a	H80117, H95961, AA035013,
	nucleotide sequence described by the general	AA233062, AA811863. AA812014.
	formula of a-b, where a is any integer between 1 to	AA827886
	978 of SEQ ID NO:18, b is an integer of 15 to 992,	7.7027000
	where both a and b correspond to the positions of	
	nucleotide residues shown in SEO ID NO:18, and	
	where b is greater than or equal to a + 14.	
	where o is greater than or equal to a + 14.	

		Y
828256	Preferably excluded from the present invention are not or more polynucleotides comprising a nucleotide sequence described by the general formula of a b. where a is any integer between 1 to 1781 of SEQ ID NO:19, b is an integer of 15 to 1795, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.19, and where b is greater than or equal to a + 14.	R19470, R-13810, R-43810, R68471, R4306, H-8827, H72808, H74042, H77919, N59326, W37177, W63751, AA054952, AA055414, AA075756, AA084216, AA167088, AA171933, AA283537, AA304517, AA256903, AA548976, AA72027, AA742227, AA876493, AA922230, AA743227, AA876493, AA922355, AA935326, AA0777477, AA96849, N38390, AA643000
828267	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-h, where a is any integer between 1 to 695 of SEQ ID NO-20, b is an integer of 15 to 709, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-20, and where b is greater than or equal to a $\tau$ 14.	R64277, R78171, R81344, R82407, R82551, H30248, N21678, N2076, N32816, N49970, N720024, N72025, N32428, W4360505, W47341, W47466, AA023021, AA022495, AA160240, AA161105, AA160287, AA262229, AA460981, AA461270, AA303727, AA516264, AA587486, AA506381, AA804907, AA814296, AA806381, AA804907, AA814296, AA8767303, AA887237, AA888721, AA877503, AA887237, AA888724, LA897503, AA897262, AA897262, R8545, A1969616, C01329
828269	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 635 of SEQ 10 NO-21, b is an integer of 15 to 649, where both a and b correspond to the positions of nucleotide residues shown in SEQ 1D NO-21, and where b is greater than or equal to a + 14.	
828272	Prefenably excluded from the present invention are nee or more polymalecidies comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1893 of SEQ ID NO.22, b is an integer of 15 to 1607, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.22, and where b is greater than or equal to a + 14.	R19809, H18934, H19375, H26539, AA055911, AA494436, AA587324, AA714132, C17882, C18668
828273	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 fo4 of SEQ ID No·23. b is an integer of 15 to 578, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO·23, and where b is greater than or equal to a + 14.	H19271
828290	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2742 of SEQ ID NO:24, b is an integer of 15 to 2756, where both a and b correspond to the	T59898, T59989, T94867, T94912, T65240, T65292, T66052, T77599, R09165, R09268, R10580, R10581, T80506, T80507, R16318, R27636, R30800, R35595, R38849, R39241, R41395, R59117, R76584, R76585,

	positions of nucleotide residues shown in SEQ ID	H09652, H09692, H11510, H11870,
	NO.24, and where b is greater than or equal to a =	R83218, R91788, R91789, R96324,
	14.	R96325, H57286, H72668, N74017,
		W02255, AA148639, AA148693,
		AA236061, AA236908, AA252747,
		AA259022, AA262883, AA278784.
		AA282771, AA284927, AA417594,
		AA456869, AA457026, AA482034,
		AA483364, AA483699, AA742268,
		AA831255
828326	Prefcrably excluded from the present invention are	T39632, T51535, T51684, T53316,
	one or more polynucleotides comprising a	T53317, T78655, R39299, R50091,
	nucleotide sequence described by the general	R50092, R60242, R60477, H15498,
	formula of a-b. where a is any integer between 1 to	H16190, H16348, H23875, H23876,
	2666 of SEQ ID NO:25, b is an integer of 15 to	H39694, H46597, H66845, H66889,
	2680, where both a and b correspond to the	H81508, H83033, N71968, N99700,
	positions of nucleotide residues shown in SEO ID	W00835, W42577, W60798,
	NO:25, and where b is greater than or equal to a +	W60929, AA040868, AA043137,
	14.	AA100392, AA133460, AA133461,
		AA151301, AA190783, AA190331,
		AA232148, AA244332, AA244333,
		AA417836, AA468588, AA552068,
		AA622100, AA570065, AA568384,
		AA661530, AA689348, AA748424,
		AA767109, AA769292, AA809791,
		AA915876, AA931522, AA983494,
		A1081278, N85117, W22522
828397	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
	1845 of SEQ ID NO:26, b is an integer of 15 to	
	1859, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ 1D	1
	NO:26, and where b is greater than or equal to a +	
	14.	
828405	Preferably excluded from the present invention are	N27583
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	620 of SEQ ID NO:27, b is an integer of 15 to 634,	
	where both a and b correspond to the positions of	
	nucleotide residues shown in SEQ ID NO:27, and	1
	where b is greater than or equal to a + 14.	
828461	Preferably excluded from the present invention are	T89996, H96643, AA076642,
	one or more polynucleotides comprising a	AA079413, AA120823, AA120824,
	nucleotide sequence described by the general	AA133102, AA128879, AA158349,
		AA158350, AA838312, C00042,
	1618 of SEQ ID NO:28, b is an integer of 15 to	AA642274
	1632, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:28, and where b is greater than or equal to a +	
	14.	
828482		R12256, T79977, T81576, T83389,
	one or more polynucleotides comprising a	T97268, T97379, R16708, R39343,
	nucleotide sequence described by the general	R69161, R69275, H15410, H15466,
		H29577, H29661, H50315, N34544,

	2525 of SEQ ID NO:29, b is an integer of 15 to 2539, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID	N47100. N62861. N67285, W24823. AA232725. AA236518, AA657840, AA736793. W26725
	NO:29, and where b is greater than or equal to a +	
828488	Preferably excluded from the present invention are one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between I to	
	480 of SEQ ID NO:30, b is an integer of 15 to 494.	
	where both a and b correspond to the positions of	
	nucleotide residues shown in SEQ ID NO:30, and where b is greater than or equal to a + 14.	
828491	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
J	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	1
	1249 of SEQ ID NO:31, b is an integer of 15 to 1263, where both a and b correspond to the	
	positions of nucleotide residues shown in SEO ID	
	NO:31, and where b is greater than or equal to a +	1
	14.	
828492	Preferably excluded from the present invention are one or more polynucleotides comprising a	1
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	323 of SEQ ID NO:32, b is an integer of 15 to 337,	
	where both a and b correspond to the positions of	
	hucleotide residues shown in SEQ ID NO:32, and where b is greater than or equal to a + 14.	
828494	Preferably excluded from the present invention are	T77590, R19349, H06686, N42827,
İ	one or more polynucleotides comprising a	N42891, N73270, W38326,
	nucleotide sequence described by the general	AA180136, AA194183, AA235257,
	formula of a-b, where a is any integer between 1 to 1728 of SEO ID NO:33, b is an integer of 15 to	AA424380, AA902702, AA939089, AA977206, AA988001, AA996359
	1742, where both a and b correspond to the	AA9//200, AA988001, AA990339
1	positions of nucleotide residues shown in SEQ ID	
	NO:33, and where b is greater than or equal to a +	
828496	Preferably excluded from the present invention are	H16641, H81084, AA972362
020470	one or more polynucleotides comprising a	1110041, 1101004, AA972302
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1152 of SEQ ID NO:34, b is an integer of 15 to 1166, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:34, and where b is greater than or equal to a +	
	14.	
828498	Preferably excluded from the present invention are one or more polynucleotides comprising a	T39930, T98680, R89124, R89756, R91725, R91820, R92013, R92158,
	nucleotide sequence described by the general	R94233, R94329, H59495, H61480,
		H62771, H62831, H67085, H67621,
	1035 of SEQ ID NO:35, b is an integer of 15 to	H71835, H71836, H79855, H79856.
	1049, where both a and b correspond to the	N31924, N42760, N55543, N72715.
	positions of nucleotide residues shown in SEQ ID NO:35, and where b is greater than or equal to a +	N76929, N79841, W46350, W46166, H97319, AA730300.
	14.	AA746151, AA887571, AA918492,

		-
		AA989417, A1001025, D79228, W38455, C15769
828504	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 475 of SEQ ID NO:36, b is an integer of 15 to 489, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:36, and where b is greater than or eault to a + 14.	W30433.C[3/09
828507	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 584 of SEQ ID NO:37, b is an integer of 15 to 598. where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:37, and where b is tracted than or example 10 to a + 14.	
828512	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 748 of SEQ 10 No.238, b is an integer of 15 to 762, where both a and b correspond to the positions of nucleotide residues shown in SEQ 1D NO.38, and where b is greater than or equal to a + 14.	N27463
828516	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between I to 1944 of SEQ ID NO:39. b is an integer of 15 to 1958, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:39, and where b is greater than or equal to a 114.	155794, T56795, T84141, R02653, R26890, R24025, R33319, R3320, R3320, R34714, R67912, R69738, R77753, R77753, R77753, R77538, R71538, R81699, H15440, H1584, H27402, H58932, H58979, H99151, N20266, N24400, N25962, N29166, N34977, N35438, N30797, N55154, W02366, W92783, W92882, A0607585, A035747, A040574474, AA102125, AA108695, AA108790, AA5412751, AA12219, AA118219, AA118276, AA559313, AA551870, AA541276, AA541276
828519	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 463 of SEQ ID NO:40, b is an integer of 15 to 477, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:40, and where b is greater than or equal to a + 14.	W79671
828521	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to	

	846 of SEQ ID NO:41. b is an integer of 15 to 860, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:41, and where b is greater than or equal to a = 14.	
828522	Preferably excluded from the present invention are one or more polynuclectudes comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1117 of SEQ ID NO.42, b is an integer of 15 to 1131, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.42, and where b is greater than or equal to a + 114.	T54309, T63973, T64041, T89636, T90270, R62731, R63668, H98873, N25098, N36012, N38881, N44246, N67168, AA047726, AA081019, AA120775, AA120774, AA128274, AA128571, AA551864, AA767989, AA902693
828525	Preferably excluded from the present invention are not or more polyunalcotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1320 of \$5Q ID NO-43, is an integer of 15 to 1334, where both a and b correspond to the positions of nucleotide residues shown in \$5Q ID NO-43, and where b is greater than or equal to a + 14.	T48657, T4868, T4886, T49081, T49081, T49118, T3559, T58581, R23090, R26432, R26979, R27655, R23999, R34608, R64482, R64537, R66662, R67743, R867150, R70688, R77130, R81861, R82246, R82815, H035311, N93770, N4193, N42044, N7514, N94149, AA029208, AA149385, AA234086, R052626, N30247, N30819, N32903, N39539, D78905, D79060, N63792, AA029209, AA90870
828529	Preferably excluded from the present invention are one or more polymacleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2337 of SEQ ID NO-44, b is an integer of 15 to 2351, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-44, and where b is greater than or equal to a + 114.	
828530	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b., where a is any integer between 1 to 1573 of SEQ ID NO.45, b is an integer of 15 to 1587, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.45, and where b is greater than or equal to a + 14.	T74290, T79269, R24408, R24409, R32342, R33507, R34284, R70908, H13795, H13794, N42196, AA013089, AA228469, AA505953, AA508121, AA602662, AA631903, AA865676, AA888323, Al032201, AA013090
828536	Preferably excluded from the present invention are one or more polynucleotides comprising an uncleotide sequence described by the general formula of a-b, where a is any integer between 1 to 565 of SEQ ID NO46, b is an integer of 15 to 379, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-46, and where b is greater than or equal to a + 14.	
828537	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1996 of SEQ ID MO.47, is an integer of 13 to 1920, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID	

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	NO:47, and where b is greater than or equal to a + 14.	
828539	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	1
	formula of a-b, where a is any integer between 1 to	
	305 of SEO ID NO:48, b is an integer of 15 to 319.	
	where both a and b correspond to the positions of	1
	nucleotide residues shown in SEO ID NO:48, and	1
	where b is greater than or equal to a + 14.	1
828540	Preferably excluded from the present invention are	
020340	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	1
	264 of SEQ ID NO:49, b is an integer of 15 to 278,	1
	where both a and b correspond to the positions of	
	nucleotide residues shown in SEQ ID NO:49, and	
	where b is greater than or equal to a + 14	
828542	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	i
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	638 of SEQ ID NO:50, b is an integer of 15 to 652.	
	where both a and b correspond to the positions of	
	nucleotide residues shown in SEQ ID NO:50, and	
	where b is greater than or equal to a + 14.	
828543	Preferably excluded from the present invention are	
į.	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
i	929 of SEQ ID NO:51, b is an integer of 15 to 943.	
	where both a and b correspond to the positions of	
	nucleotide residues shown in SEQ ID NO:51, and	
	where b is greater than or equal to a + 14.	
828544	Preferably excluded from the present invention are	
i	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	i
	818 of SEQ ID NO:52, b is an integer of 15 to 832,	
	where both a and b correspond to the positions of	
	nucleotide residues shown in SEQ ID NO:52, and	
	where b is greater than or equal to a + 14.	
828546	Preferably excluded from the present invention are	H25827, H45313, W77774,
	one or more polynucleotides comprising a	AA587295, AA595924, AA603051,
	nucleotide sequence described by the general	C00427
	formula of a-b, where a is any integer between 1 to	
ļ	1540 of SEQ ID NO:53, b is an integer of 15 to	
	1554, where both a and b correspond to the	
1	positions of nucleotide residues shown in SEQ ID	
	NO:53, and where b is greater than or equal to a +	
	14.	
828550	Preferably excluded from the present invention are	
1	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	267 of SEO ID NO:54, b is an integer of 15 to 281.	
l	where both a and b correspond to the positions of	

1	nucleotide residues shown in SEQ ID NO:54, and	
	where b is greater than or equal to a + 14.	
828551	Preferably excluded from the present invention are	AA224996, AA225045, AA229587.
1	one or more polynucleotides comprising a	AA524970, AA528287, AA569633,
I	nucleotide sequence described by the general	AA577923
	formula of a-b. where a is any integer between 1 to	
	793 of SEQ 1D NO:55. b is an integer of 15 to 807.	
	where both a and b correspond to the positions of	
	nucleotide residues shown in SEQ ID NO:55, and	
	where b is greater than or equal to a + 14.	
828553	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	i
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between I to	
Į.	642 of SEQ ID NO:56, b is an integer of 15 to 656,	
	where both a and b correspond to the positions of	
	nucleotide residues shown in SEQ ID NO:56, and	
	where b is greater than or equal to a + 14.	
828557	Preferably excluded from the present invention are	
l .	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	780 of SEQ ID NO:57, b is an integer of 15 to 794,	
	where both a and b correspond to the positions of	
	nucleotide residues shown in SEQ ID NO:57, and	ĺ
	where b is greater than or equal to a + 14.	
828560	Preferably excluded from the present invention are	R77295, R77355, N50880.
1	one or more polynucleotides comprising a	AA228477. AA229199, AA229332,
1	nucleotide sequence described by the general	AA229430, AA229342, AA508222.
1	formula of a-b, where a is any integer between 1 to	AA508881, AA508713, AA522664,
1	1141 of SEQ ID NO:58, b is an integer of 15 to	AA525054, AA531563, AA564505,
	1155, where both a and b correspond to the	AA627496, AA569813, AA908306
	positions of nucleotide residues shown in SEQ ID	
	NO:58, and where b is greater than or equal to a +	
020561	14.	
828561	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between I to	
	478 of SEQ ID NO:59, b is an integer of 15 to 492,	
	where both a and b correspond to the positions of nucleotide residues shown in SEO ID NO.59, and	
	where b is greater than or equal to a + 14.	
828565	Preferably excluded from the present invention are	
828303	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1603 of SEQ ID NO:60, b is an integer of 15 to	
	1617, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:60, and where b is greater than or equal to a +	
1	14	
828566	Preferably excluded from the present invention are	T74741, R89314, H66527, H66526,
040300	one or more polynucleotides comprising a	H67472, H67473, H68173, H68172,
	nucleotide sequence described by the general	H96621, H96622, N27775, N28518,
1		N33857, N66931, AA149826,
1	1639 of SEQ 1D NO:61, b is an integer of 15 to	AA151993. AA152072. AA152078.
	prosper of other troust, o is all lineger of 15 to	MAIJ1993. MAIJ2012. MAIJ2018.

	1653, where both a and b correspond to the	AA188743
	positions of nucleotide residues shown in SEQ ID	
	NO:61, and where b is greater than or equal to a +	
	14.	
828567	Preferably excluded from the present invention are	
i	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
i	formula of a-b, where a is any integer between 1 to	
	426 of SEQ ID NO:62, b is an integer of 15 to 440,	
	where both a and b correspond to the positions of	
	nucleotide residues shown in SEQ ID NO:62. and	
	where b is greater than or equal to a + 14.	
828568	Preferably excluded from the present invention are	R01283, R62995, R63052, R97762,
l	one or more polynucleotides comprising a	R97763, AA044146, AA044262,
İ	nucleotide sequence described by the general	AA150771. AA429074. AA282254,
	formula of a-b, where a is any integer between 1 to	AA282728. AA468569. AA586526.
	1048 of SEQ ID NO:63, b is an integer of 15 to	AA622172. AA631182. AA631273,
Į	1062, where both a and b correspond to the	AA809910. AA811682
	positions of nucleotide residues shown in SEQ ID	
	NO:63, and where b is greater than or equal to a +	
	14.	
828569	Preferably excluded from the present invention are	I
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between I to	
	408 of SEQ ID NO:64, b is an integer of 15 to 422,	
	where both a and b correspond to the positions of	
	nucleotide residues shown in SEQ ID NO:64, and	
	where b is greater than or equal to a + 14	
828570		H77440
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	695 of SEQ ID NO:65, b is an integer of 15 to 709,	
	where both a and b correspond to the positions of	
	nucleotide residues shown in SEQ ID NO:65, and	
020571	where b is greater than or equal to a + 14.	120000 12000 12000
828571		N27429, N34713, N51144,
	one or more polynucleotides comprising a	AA033703, AA033704, AA046488,
		AA046700, AA180131, AA514866,
		AA515411, AA527426, AA554163, AA745008, AA805885, AA862045,
i	1302, where both a and b correspond to the	AA953025, AI075070
1	positions of nucleotide residues shown in SEO ID	MA733023, AIU/30/0
	NO:66, and where b is greater than or equal to a +	
1	14.	
828574		T92929, T93045, T92007, T92093.
020374	one or more polynucleotides comprising a	T98007, R28667, N79460.
I	nucleotide sequence described by the general	AA614258, AA741201, AA847513.
1		A1083735
l	1032 of SEQ ID NO:67, b is an integer of 15 to	
1	1046, where both a and b correspond to the	
1	positions of nucleotide residues shown in SEO ID	
l	NO:67, and where b is greater than or equal to a +	
	14.	
828575		AA837738
0203/3	one or more polynucleotides comprising a	PAG21136
	pine or more polynaciconaes comprising a	

	nucleotide sequence described by the general	1
1	formula of a-b, where a is any integer between 1 to	
	487 of SEQ ID NO:68, b is an integer of 15 to 501.	
1	where both a and b correspond to the positions of	
	nucleotide residues shown in SEQ ID NO:68, and	
	where b is greater than or equal to a = 14.	
828577	Preferably excluded from the present invention are	AA169882, AA169883
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	1
1	567 of SEQ ID NO:69, b is an integer of 15 to 581,	1
1	where both a and b correspond to the positions of	
i	nucleotide residues shown in SEQ ID NO:69, and	
	where b is greater than or equal to a + 14.	
828578	Preferably excluded from the present invention are	T39452, T46945, T47319, T53621,
0200.0	one or more polynucleotides comprising a	T53622, T61271, T61323, R21194.
	nucleotide sequence described by the general	R22811, R24705, R25199, R50467,
	formula of a-b, where a is any integer between 1 to	R50468, R53758, R53759, R63087,
1	1062 of SEQ ID NO:70. b is an integer of 15 to	R63131, R63969, R64075, R70570.
	1076, where both a and b correspond to the	R77117, R77118, R80611, R80612,
	positions of nucleotide residues shown in SEQ ID	H00653, H00742, H02619, H02725,
	NO:70. and where b is greater than or equal to a +	N32242, N57336, N69947, N80785,
1	14.	N98328, N98569, W15554,
	17.	
		AA029021, AA029143, AA037587,
		AA131825, AA131992, AA229266,
		AA507524, AA533307, AA533431,
Į.	l .	AA534110, AA534166, AA534281,
		AA535170, AA586608, AA593596,
	1	AA838623, AA885780, AA936945,
		AA642546
828580	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between I to	
	362 of SEQ 1D NO:71, b is an integer of 15 to 376,	
1	where both a and b correspond to the positions of	1
	nucleotide residues shown in SEQ 1D NO:71, and	
	where b is greater than or equal to a + 14.	
828581	Preferably excluded from the present invention are	AA507628
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	360 of SEQ ID NO:72, b is an integer of 15 to 374,	
1	where both a and b correspond to the positions of	
	nucleotide residues shown in SEQ ID NO:72, and	
	where b is greater than or equal to a + 14.	
828583	Preferably excluded from the present invention are	
1	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
	405 of SEQ 1D NO:73, b is an integer of 15 to 419,	
	where both a and b correspond to the positions of	
1	nucleotide residues shown in SEQ ID NO:73, and	
	where b is greater than or equal to a + 14.	
828585		AA234220
1	one or more polynucleotides comprising a	
L	nucleotide sequence described by the general	

formula of a-b. where a is any integer between 1 to	
272 of SEQ ID NO:74. b is an integer of 15 to 286	.
where both a and b correspond to the positions of	
nucleotide residues shown in SEQ ID NO:74, and	
where b is greater than or equal to a + 14.	
828587 Preferably excluded from the present invention are	
one or more polynucleotides comprising a	
nucleotide sequence described by the general	
formula of a-b. where a is any integer between 1 to	
619 of SEQ ID NO:75. b is an integer of 15 to 633.	
where both a and b correspond to the positions of	
nuclcotide residues shown in SEQ ID NO:75, and	
where b is greater than or equal to a + 14.	
828590 Preferably excluded from the present invention are	
one or more polynucleotides comprising a	
nucleotide sequence described by the general	
formula of a-b, where a is any integer between 1 to	
242 of SEQ ID NO:76, b is an integer of 15 to 256.	. [
where both a and b correspond to the positions of	
nucleotide residues shown in SEQ ID NO:76, and	1
where b is greater than or equal to a + 14.	
828592 Preferably excluded from the present invention are	R52221, R54548, R97331, H57211,
one or more polynucleotides comprising a	H55375, H55650
nucleotide sequence described by the general	
formula of a-b, where a is any integer between 1 to	
680 of SEQ 1D NO:77, b is an integer of 15 to 694,	
where both a and b correspond to the positions of	
nucleotide residues shown in SEQ ID NO:77, and	
where b is greater than or equal to a + 14.	
Preferably excluded from the present invention are	T57629, T58982, R19824, R45052,
one or more polynucleotides comprising a	R45052, R55638, R59495, H18527,
nucleotide sequence described by the general	H19193, H28411, H39750, H62246.
formula of a-b, where a is any integer between 1 to	H62335, H91342, N62586, N63264,
2548 of SEQ 1D NO:78, b is an integer of 15 to	N80359, W81015. W94481,
2562, where both a and b correspond to the	W94746, AA011589, AA029848,
positions of nucleotide residues shown in SEQ ID	AA028978, AA043902, AA114931,
NO:78, and where b is greater than or equal to a +	AA114930, AA191597, AA232906,
14.	AA233035, AA258137, AA287367,
	AA287505, AA506450, AA525766,
	AA526128, AA548114, AA592904,
	AA808705, AA837733, AA876630,
	AA908724, N90333, AA007166
Preferably excluded from the present invention are	R06875, R06876, H89673,
one or more polymucleotides comprising a	AA036961, AA150107, AA150515,
nucleotide sequence described by the general	AA983641
formula of a-b, where a is any integer between 1 to	
1596 of SEQ ID NO:79, b is an integer of 15 to	
1610, where both a and b correspond to the	
positions of nucleotide residues shown in SEQ 1D	
NO:79, and where b is greater than or equal to a +	
14.	
28596 Preferably excluded from the present invention are	R09863, T84746. T98848, W01274,
one or more polynucleotides comprising a	W48629, AA082189. AA426550.
nucleotide sequence described by the general	C04056
formula of a-b, where a is any integer between 1 to	
	1
1034 of SEQ ID NO:80, b is an integer of 15 to 1048, where both a and b correspond to the	

	positions of nucleotide residues shown in SEQ ID	
	NO:80, and where b is greater than or equal to a +	
828597	Preferably excluded from the present invention arc	R41797, R41797, H61049, N58312.
020577	one or more polynucleotides comprising a	N79783, W07281, W23730.
	nucleotide sequence described by the general	W23738, W35330, W35337,
	formula of a-b, where a is any integer between 1 to	AA235295, AA935231, AA995710,
	1122 of SEO ID NO:81, b is an integer of 15 to	Al017376, Al088874, Al096890,
1	1136, where both a and b correspond to the	W27549
	positions of nucleotide residues shown in SEQ ID	
	NO:81, and where b is greater than or equal to a +	
	14.	
828598	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	283 of SEQ ID NO:82, b is an integer of 15 to 297,	
	where both a and b correspond to the positions of	
	nucleotide residues shown in SEQ ID NO:82, and	
220101	where b is greater than or equal to a + 14.	
828601	Preferably excluded from the present invention are one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between I to	
	2136 of SEQ ID NO:83, b is an integer of 15 to	
	2150, where both a and b correspond to the	
	positions of nucleotide residues shown in SEO ID	
	NO:83, and where b is greater than or equal to a +	
	14.	
828605	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	_
1	formula of a-b, where a is any integer between 1 to	
1	587 of SEQ ID NO:84, b is an integer of 15 to 601.	
	where both a and b correspond to the positions of	
	nucleotide residues shown in SEQ ID NO:84, and	
828608	where b is greater than or equal to a + 14.  Preferably excluded from the present invention are	AA244003, AA244034, AA506324
828008	one or more polynucleotides comprising a	AA244003, AA244034, AA300324
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	520 of SEQ ID NO:85, b is an integer of 15 to 534,	
]	where both a and b correspond to the positions of	
1	nucleotide residues shown in SEQ ID NO:85, and	
1	where b is greater than or equal to a + 14.	
828609	Preferably excluded from the present invention are	N48056, N52932, N53254, N64840,
1	one or more polynucleotides comprising a	N75691, AI050871
	nucleotide sequence described by the general	·
	formula of a-b, where a is any integer between 1 to	
	1023 of SEQ ID NO:86, b is an integer of 15 to	
	1037, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
1	NO:86, and where b is greater than or equal to a +	
	14.	
828610		AA177029, AA177023, AA176984,
	one or more polynuclcotides comprising a	AA177153, AA216404. AA224959,
	nucleotide sequence described by the general	AA225025, AA225109, AA225143,

[formula of a-b. where a is any integer between 1 to [AA225306, AA225152, AA225228, 83 of SEQ ID NO:87, b is an integer of 15 to 597. AA225308, AA225312, AA22531, AA225408, AA225409, AA2

AA225409, AA225879, AA225880, AA225963, AA225974, AA226101. AA226227. AA226240, AA226384, AA226459, AA226556, AA226623. AA226632, AA226680, AA229222 AA229223, AA229482, AA229756. AA229964, AA244017, AA244091 AA244178, AA244052, AA244362, AA244452, AA397457, AA420631. AA420632, AA420633, AA420826. AA469131, AA469154, AA469201. AA469209, AA469226, AA469293. AA469373, AA470501, AA470548. AA492204, AA492255, AA492295. AA492311, AA492312, AA492327 AA492329. AA492334, AA492382, AA492389, AA492411, AA492438. AA492445. AA492451, AA494242. AA494243, AA494246, AA493268. AA493332, AA493445, AA502071. AA502154, AA502180, AA502191. AA502200, AA502978, AA502981. AA503115, AA503349, AA503429, AA503609, AA503666, AA503677, AA503682, AA503909, AA503926. AA504051, AA504066, AA506197. AA506319, AA506330, AA506475. AA506731, AA506804, AA506914. AA507128, AA507215, AA507217. AA507281, AA507287, AA507305. LAA507373, AA507510, AA507545, AA507615, AA507633, AA507659. AA507664, AA507669, AA507679. AA507685, AA507759, AA507769. AA507778, AA507785, AA507789. AA507968, AA507983, AA507996. AA507995, AA508013, AA508078, AA508096, AA508112, AA508128, AA508144, AA508348, AA508360, AA508636, AA513240, AA514804, AA514915, AA516492, AA516500. AA522599, AA524675, AA524914, AA524998, AA525091, AA526491. AA526493, AA527728, AA527825. AA528273, AA530882, AA530906. AA530942, AA530954, AA531208, AA531341, AA531361, AA531381, AA531498, AA532578, AA532712, AA532960, AA533031, AA533053, AA533162, AA533961, AA534135, AA535497, AA535744, AA541576, AA541642, AA548220, AA548400, AA551463, AA551698, AA551727, AA551737, AA552827, AA552829, AA557784, AA557804, AA558634,

		AA564543, AA564966, AA565164,
		AA588853, AA588270. AA587824.
		AA588630, AA593049, AA593065,
		AA594830, AA594923, AA595627,
		AA603351, AA603362. AA603437,
1		AA603827, AA603877, AA603879,
		AA630927. AA635332. AA635394,
		AA635542, AA635549, AA635909,
		AA636004, AA639312, AA639995,
1		AA640184. AA640298, AA640342.
1		AA569556. AA570614, AA572857,
		AA574208, AA574209, AA574212,
		AA574273, AA580026, AA578701,
1		AA578799, AA578900, AA579004,
1		AA579008, AA579351, AA568108,
		AA568415, AA654920, AA654956,
		AA657393, AA657432, AA657479,
k		AA657506, AA657531, AA657541,
1		AA657686, AA657800, AA657938,
		AA658414. AA658873. AA659224,
		AA659592, AA659778, AA661727,
		AA662090, AA662125, AA662301.
		AA687536, AA687632, AA715325,
1		AA807843, AA809523, AA809593,
		AA640904, AA640929, AA642080,
	<u> </u>	AA642520
828617	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
i	formula of a-b, where a is any integer between 1 to	
1	460 of SEQ ID NO:88, b is an integer of 15 to 474,	1
	where both a and b correspond to the positions of nucleotide residues shown in SEO ID NO:88, and	
	where b is greater than or equal to a + 14.	
828620	Preferably excluded from the present invention are	AA228288, AA492280, AA507777,
020020	one or more polynucleotides comprising a	AA508355, AA527737, AA527805,
	nucleotide sequence described by the general	AA559165, AA559352, AA564484,
	formula of a-b, where a is any integer between 1 to	AA602957, AA659719, AA642055
1	1523 of SEQ ID NO:89, b is an integer of 15 to	1 AAG 2000
	1537, where both a and b correspond to the	l .
1	positions of nucleotide residues shown in SEQ ID	ł
	NO:89, and where b is greater than or equal to a +	
	14.	1
828621	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	1
	nucleotide sequence described by the general	ĺ
	formula of a-b, where a is any integer between 1 to	
	290 of SEQ ID NO:90, b is an integer of 15 to 304,	
	where both a and b correspond to the positions of	
1	nucleotide residues shown in SEQ ID NO:90, and	
	where b is greater than or equal to a + 14.	
828622	Preferably excluded from the present invention are	AA570443
	one or more polynucleotides comprising a	1
	nucleotide sequence described by the general	1
	formula of a-b, where a is any integer between 1 to	
	355 of SEQ 1D NO:91, b is an integer of 15 to 369,	
L	where both a and b correspond to the positions of	

	nucleotide residues shown in SEQ ID NO:91, and	
	where b is greater than or equal to a + 14.	
828623	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	1
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to 301 of SEQ ID NO:92, b is an integer of 15 to 315,	
	where both a and b correspond to the positions of	
ı	nucleotide residues shown in SEO ID NO:92, and	
1	where b is greater than or equal to a + 14.	
828625	Preferably excluded from the present invention are	
i	one or more polynucleotides comprising a	1
	nuclcotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
1	687 of SEQ ID NO:93, b is an integer of 15 to 701,	
1	where both a and b correspond to the positions of	
	nuclcotide residues shown in SEQ 1D NO:93, and	1
828632	where b is greater than or equal to a + 14.	
828632	Preferably excluded from the present invention are one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	445 of SEQ ID NO:94, b is an integer of 15 to 459,	
	where both a and b correspond to the positions of	
	nucleotide residues shown in SEQ ID NO:94, and	
	where b is greater than or equal to a + 14.	
828635	Preferably excluded from the present invention are	R13230, R19016, R35012, R40312,
	one or more polynucleotides comprising a	R44087, R46776, R49399, R44087,
	nucleotide sequence described by the general	R40312, R49399, H22883, H24275,
	formula of a-b, where a is any integer between 1 to	H71951, N73720, W03891,
1	2575 of SEQ ID NO:95, b is an integer of 15 to	W95360, W95359, AA055316,
	2589, where both a and b correspond to the positions of nucleotide residues shown in SEO ID	AA055317, AA135153, AA135291, AA195210, AA195427, AA236624,
	NO:95, and where b is greater than or equal to a +	AA237000, AA548249, AA553712.
	14.	AA595319, AA770603, AA947028.
	17.	D78699
828637	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	443 of SEQ ID NO:96, b is an integer of 15 to 457,	
	where both a and b correspond to the positions of	
	nucleotide residues shown in SEQ ID NO:96, and	
828639	where b is greater than or equal to a + 14.  Preferably excluded from the present invention are	
626039	one or more polynucleotides comprising a	
i	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
	502 of SEO ID NO:97, b is an integer of 15 to 516,	
	where both a and b correspond to the positions of	
	nucleotide residues shown in SEQ ID NO:97, and	
	where b is greater than or equal to a + 14.	
828645	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
	300 of SEQ ID NO:98, b is an integer of 15 to 314.	

	where both a and b correspond to the positions of	
	nucleotide residues shown in SEQ ID NO:98, and	
	where b is greater than or equal to a + 14	
828648	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	1
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	665 of SEQ ID NO:99, b is an integer of 15 to 679.	
	where both a and b correspond to the positions of	
	nucleotide residues shown in SEQ ID NO:99, and	
	where b is greater than or equal to a + 14.	
828649	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	585 of SEQ ID NO:100. b is an integer of 15 to	
	599, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:100.	
	and where b is greater than or equal to a + 14.	
828651	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1175 of SEQ ID NO:101, b is an integer of 15 to	
	1189, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:101, and where b is greater than or equal to a +	
828652	14.	
828652	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to	
	237 of SEQ ID NO:102, b is an integer of 15 to	
	251, where both a and b correspond to the positions	
	of nucleotide residues shown in SEO ID NO:102.	
	and where b is greater than or equal to a + 14.	
828655	Preferably excluded from the present invention are	
020033	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	444 of SEQ ID NO:103. b is an integer of 15 to	
	458, where both a and b correspond to the positions	
	of nucleotide residues shown in SEO ID NO: 103.	
	and where b is greater than or equal to a + 14.	
828657	Preferably excluded from the present invention are	
320037	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	425 of SEQ ID NO:104, b is an integer of 15 to	
	439, where both a and b correspond to the positions	
	of nucleotide residues shown in SEO ID NO:104.	
	and where b is greater than or equal to a + 14.	
828660	Preferably excluded from the present invention are	
020000	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	219 of SEQ ID NO:105. b is an integer of 15 to	

233. where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.105. and where b is greater than or equal to a + 14.  82863. The Frefarbly excluded from the present invention are when the properties of the properties
of mucleotide residues shown in SEQ ID NO-105. and where b is greater than or equal to a + 14.  828663 Preferably excluded from the present invention are one or more polymucleotides compraining a nucleotide sequence described by the general formula of a -b. where a is any integer between 1 to 699 of SEQ ID NO-106. In the sequence of
828663   Preferably excluded from the present invention are one or more polymeclosides compraining a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 699 of SEQ ID NO:106. bis an integer of 15 to 704, where both a and be correspond to the positions of nucleotide residues shown in SEQ ID NO:106. and where b is greater than or equal to a + 14.    828666   Preferably excluded from the present invention are one or more polymecleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 431 of SEQ ID NO:107, bis an integer of 15 to 445, where both a and b correspond to the positions of ancientide residues shown in SEQ ID NO:107, and where b is greater than or equal to a + 14.    828668   Reference of the second of t
nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 890 of SEQ ID NO.106, b is an integer of 15 to 704, where both a not be correspond to the positions of nucleotide residues shown in SEQ ID NO.106, and where b is greater than or equal to a + 14.  828660 Preferably excluded from the present invention are no or more polynucleotides comparising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 431 of SEQ ID NO.107, bis an integer of 15 to 445, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.107, and where b is greater than or equal to a + 14.  828668 Preferably excluded from the present invention are no or more polynucleotides comparising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 578 of SEQ ID NO.108, b is an integer of 15 to 592, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.108, and where b is greater than or equal to a + 14.  828669 Preferably excluded from the present invention are one or more polynucleotides comparising a nucleotide residues shown in SEQ ID NO.108, and where b is greater than or equal to a + 14.  828669 Preferably excluded from the present invention are one or more polynucleotides comparising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 367 of SEQ ID NO.109, b is an integer of 15 to 381, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are one or more polynucleotides comparising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 367 of SEQ ID NO.109, b is an integer of 15 to 381, where both a and b correspond to the positions of nucleotide sequence described by the general formula of a-b, where a is any integer betw
nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 690 of SEQ ID NO.106. b is an integer of 15 to 704, where both and be correspond to the positions of nucleotide residues shown in SEQ ID NO.106. and where b is greater than or equal to a + 14.  828666 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 431 of SEQ ID NO.107. b is an integer of 15 to 443, where both a and be correspond to the positions of nucleotide residues shown in SEQ ID NO.107. and where b is greater than or equal to a + 14.  828668 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer of 15 to 592. Where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.108. and where b is greater than or equal to a + 14.  828669 Region of the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer of 15 to 362. Where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.108. and where b is greater than or equal to a + 14.  828669 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 367 of SEQ ID NO.109, b is an integer of 15 to 381, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 367 of SEQ ID NO.109, b is an integer of 15 to 381, where both a and b correspond to the positions of nucleotid
nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 690 of SEQ ID NO.106. b is an integer of 15 to 704, where both and be correspond to the positions of nucleotide residues shown in SEQ ID NO.106. and where b is greater than or equal to a + 14.  828666 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 431 of SEQ ID NO.107. b is an integer of 15 to 443, where both a and be correspond to the positions of nucleotide residues shown in SEQ ID NO.107. and where b is greater than or equal to a + 14.  828668 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer of 15 to 592. Where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.108. and where b is greater than or equal to a + 14.  828669 Region of the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer of 15 to 362. Where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.108. and where b is greater than or equal to a + 14.  828669 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 367 of SEQ ID NO.109, b is an integer of 15 to 381, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 367 of SEQ ID NO.109, b is an integer of 15 to 381, where both a and b correspond to the positions of nucleotid
formula of a-b. where a is any integer between 1 to 699 of SEQ ID NO.106. b is an integer of 15 to 1704, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.106. and where b is greater than or equal to a + 14.  828666 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 431 of SEQ ID NO.107. b is an integer of 15 to 445, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.107. and where b is greater than or equal to a + 14.  828668 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 578 of SEQ ID NO.108. b is an integer of 15 to 592, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.108. and where b is greater than or equal to a + 14.  828669 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 578 of SEQ ID NO.108, and where b is greater than or equal to a + 14.  828669 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer of 15 to 381, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer of 15 to 337 of SEQ ID NO.100, bit is an integer of 15 to 337 of SEQ ID NO.100, bit is an integer of 15 to 337 of SEQ ID NO.100, bit is an integer of 15 to 337 of SEQ ID NO.100, bit is an integer of 15 to 337 of SEQ ID NO.100,
690 of SEQ ID NO:106. b is an integer of 15 to 704, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:106. and where b is greater than or equal to a + 14.  828660 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 431 of SEQ ID NO:107, b is an integer of 15 to 445, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:107, and where b is greater than or equal to a + 14  828668 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 578 of SEQ ID NO:108, b is an integer of 15 to 592, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:108, and where b is greater than or equal to a + 14.  828669 Indicate the state of t
704, where both a and b correspond to the positions of nucleotide residues shown in SEO ID NO:106, and where b is greater than or equal to a + 14.  828666 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 431 of SEO ID NO:107, bis an integer of 15 to 445, where both a mob correspond to the positions of nucleotide residues shown in SEO ID NO:107, and where b is greater than or equal to a + 14.  828668 Preferably excluded from the present invention are one or more polynucleotides contryrising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 578 of SEO ID NO:108, bis an integer of 15 to 592, where both a and b correspond to the positions of nucleotide residues shown in SEO ID NO:108, and where b is greater than or equal to a + 14.  828669 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer of 15 to 381, where both a and b correspond to the positions of nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 367 of SEO ID NO:109, bis an integer of 15 to 381, where both a and b correspond to the positions of nucleotide residues shown in SEO ID NO:109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 367 of SEO ID NO:109, bis an integer of 15 to 361 of SEO ID NO:109, bis an integer of 15 to 361 of SEO ID NO:109, bis an integer of 15 to 361 of SEO ID NO:109, bis an integer of 15 to 361 of SEO ID NO:109, bis an integer of 15 to 361 of SEO ID NO:109, bis an integer of 15 to 361 of SEO ID NO:109, bis an integer of 15 to 361 of SEO ID NO:109, bis an integer of 15 to 361 of SEO ID NO
of nucleotide residues shown in SEQ ID NO-106.  and where b is greater than or equal to a + 14.  828666 Preferably excluded from the present invention are one or more polynucleotides comprosing a nucleotide sequence described by the general formula of a - b. where a is any integer between 1 to 431 of SEQ ID NO-107, b is an integer of 15 to 445, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-107, and where b is greater than or equal to a + 14  828668 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a -b. where a is any integer between 1 to 378 of SEQ ID NO-108, b is an integer of 15 to 592, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-108.  828669 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 367 of SEQ ID NO-108, bit is an integer of 15 to 381, where to the and b correspond to the positions of nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 367 of SEQ ID NO-109, bit is an integer of 15 to 381, where both a and b correspond to the positions of nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 367 of SEQ ID NO-109, bit is an integer of 15 to 381, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 337 of SEQ ID NO-100, bit is an integer of 15 to 337 of SEQ ID NO-1010, bit is an integer of 15 to 337 of SEQ ID NO-1010, bit is an integer of 15 to 337 of SEQ ID NO-1010, bit is an integer of 15 to 337 of SEQ ID NO-1010,
828660   Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 431 of SEQ ID NO:107, b is an integer of 15 to 445, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:107, and where b is greater than or equal to a + 14
bee or more polynucleotides countrising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 431 of SEQ ID NO:107, b is an integer of 15 to 445, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:107.  828668 Preferably excluded from the present invention are one or more polynucleotides countryinsing a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 578 of SEQ ID NO:108, b is an integer of 15 to 592, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:108, and where b is greater than or equal to a + 14.  828669 Preferably excluded from the present invention are nor more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 367 of SEQ ID NO:109, b is an integer of 15 to 381, where both a nad b correspond to the positions of nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 367 of SEQ ID NO:109, bit is an integer of 15 to 381, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 337 of SEQ ID NO:100, is an integer of 15 to
nucleotide sequence described by the general formula of a-b. where a is any integer between I to 431 of SEQ ID NO:107. b is an integer of 15 to 445, where both and be correspond to the positions of nucleotide residues shown in SEQ ID NO:107. and where b is greater than or equal to a + 14.  828668 Preferably excluded from the present invention are one or more polynucleotides conpurprising a nucleotide sequence described by the general formula of a-b. where a is any integer between I to 578 of SEQ ID NO:108, b is an integer of 15 to 592. where both a and b correspond to the positions of nucleotide sequence shown in SEQ ID NO:108, and where b is greater than or equal to a + 14.  828669 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between I to 367 of SEQ ID NO:109, b is an integer of 15 to 381, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide residues shown in SEQ ID NO:109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between I to 337 of SEQ ID NO:100, b is an integer of 15 to
formula of a-b. where a is any integer between I to 431 of SEQ ID NO:107.b is an integer of 15 to 445, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:107. and where b is greater than or equal to a + 14  828668 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between I to 578 of SEQ ID NO:108.b is an integer of 15 to 592, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:108. and where b is greater than or equal to a + 14.  828669 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between I to 367 of SEQ ID NO:109, b is an integer of 15 to 381, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide residues from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between I to 337 of SEQ ID NO:109, bit an integer of 15 to
431 of SEQ ID NO:107. b is an integer of 15 to 445, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:107, and where b is greater than or equal to a + 14.  828668 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 578 of SEQ ID NO:108, b is an integer of 15 to 592, where both a and be correspond to the positions of nucleotide residues shown in SEQ ID NO:108, and where b is greater than or equal to a + 14.  828669 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer of 15 to 381, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are one comor polynucleotides somprising a nucleotide residues shown in SEQ ID NO:109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 337 of SEQ ID NO:100, b is an integer of 15 to
445, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.107, and where b is greater than or equal to a + 14  828668 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 578 of SEQ ID NO.108, b is an integer of 15 to 592, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.108, and where b is greater than or equal to a + 14.  828669 Preferably excluded from the present invention are nor more polynucleotides comprising a nucleotide sequence described by the general formula of a -b, where a is any integer between 1 to 367 of SEQ ID NO.109, b is an integer of 15 to 381, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide residues shown in SEQ ID NO.109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a -b, where a is any integer between 1 to 337 of SEQ ID NO.110, b is an integer of 15 to
of nucleotide residues shown in SEQ ID NO-107, and where b is greater than or equal to a + 14.  828668 Preferably excluded from the present invention are one or more polynucleotides congruprising a nucleotide sequence described by the general formula of a - b, where a is any integer between 1 to 578 of SEQ ID NO-108, bit an integer of 15 to 592, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-108, and where b is greater than or equal to a + 14.  828669 Preferably excluded from the present invention are one or more polynucleotides compensing a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 367 of SEQ ID NO-109, bit an integer of 15 to 381, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide residues shown in SEQ ID NO-109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 337 of SEQ ID NO-110, bit is an integer of 15 to
and where b is greater than or equal to a + 14  82868 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 578 of SEQ ID NO:108, b is an integer of 15 to 592, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:108, and where b is greater than or equal to a + 14.  828669 Preferably excluded from the present invention are no or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 367 of SEQ ID NO:109, b is an integer of 15 to 381, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 337 of SEQ ID NO:10, b is an integer of 15 to 337, of SEQ ID NO:10, b is an integer of 15 to 337 of SEQ ID NO:10, b is an integer of 15 to 337 of SEQ ID NO:10, b is an integer of 15 to 337 of SEQ ID NO:10, b is an integer of 15 to
828668 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer fet ween I to 578 of SEQ ID NO-108, bit is an integer of 15 to 592, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-108, and where b is greater than or equal to a + 14.  828669 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 367 of SEQ ID NO-109, bit and integer of 15 to 381, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 337 of SEQ ID NO-110, b is an integer of 15 to 137 of SEQ ID NO-110, b is an integer of 15 to 137 of SEQ ID NO-110, b is an integer of 15 to 137 of SEQ ID NO-110, b is an integer of 15 to 137 of SEQ ID NO-110, b is an integer of 15 to 137 of SEQ ID NO-110, b is an integer of 15 to 137 of SEQ ID NO-110, b is an integer of 15 to 137 of SEQ ID NO-110, b is an integer of 15 to 137 of SEQ ID NO-110, b is an integer of 15 to 138 of SEQ ID NO-110, b is an integer of 15 to 137 of SEQ ID NO-110, b is an integer of 15 to 137 of SEQ ID NO-110, b is an integer of 15 to 138 of SEQ ID NO-110, b is an integer of 15 to 138 of SEQ ID NO-110, b is an integer of 15 to 138 of SEQ ID NO-110, b is an integer of 15 to 138 of SEQ ID NO-110, b is an integer of 15 to 138 of SEQ ID NO-110, b is an integer of 15 to 138 of SEQ ID NO-110, b is an integer of 15 to 138 of SEQ ID NO-110, b is an integer of 15 to 138 of SEQ ID NO-110, b is an integer of 15 to 138 of SEQ ID NO-110, b is an integer of 15 to 138 of SEQ ID NO-110, b is an integer of 15 to 138 of SEQ ID NO-110, b is an i
one or more polynucleotides comprising a nucleotide sequence described by the general formula of 3-b, where a is any integer between 1 to 578 of SEQ ID NO:108, b is an integer of 15 to 592, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:108, and where b is greater than or equal to a + 14.  828669 Preferably excluded from the present invention are no rmore polynucleotides comprising a nucleotide sequence described by the general formula of 3-b. where a is any integer between 1 to 367 of SEQ ID NO:109, b is an integer of 15 to 381, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:109, and where b is creater than or equal to a + 14.  828670 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 337 of SEQ ID NO:110, b is an integer of 15 to
nucleotide sequence described by the general formula of a-b, where a is any integer between I to 578 of SEQ ID NO-108, b is an integer of 15 to 592, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-108, and where b is greater than or equal to a + 14.  828669 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 367 of SEQ ID NO-109, bit and integer of 15 to 381, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 337 of SEQ ID NO-110, b is an integer of 15 to
formula of a-b. where a is any integer between 1 to 578 of SEQ ID NO:108, bit an integer of 15 to 592, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:108, and where b is greater than or equal to a + 14.  828669 Preferably excluded from the present invention are no or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 367 of SEQ ID NO:109, bit is an integer of 15 to 381, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 337 of SEQ ID NO:10, b is an integer of 15 to
578 of SEQ ID NO:108. b is an integer of 15 to 592. where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:108, and where b is greater than or equal to a + 14.  828669 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 367 of SEQ ID NO:109. b is an integer of 15 to 381, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 337 of SEQ ID NO:110, b is an integer of 15 to
592, where both a and b correspond to the positions of nucleotide residues shown in SEO JD NO:108, and where b is greater than or equal to a + 14.  828669 Preferably excluded from the present invention are no or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 367 of SEQ ID NO:109, bis an integer of 15 to 381, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 337 of SEQ ID NO:10, b is an integer of 15 to
of nucleotide residues shown in SEQ ID NO-108, and where b is greater than or equal to a + 14.  828669 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 367 of SEQ ID NO-109, bits an integer of 15 to 381, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are with the control of the control of the control of the control of the control of the control of a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 337 of SEQ ID NO-110, b is an integer of 15 to
and where b is greater than or equal to a + 14.  828669 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 367 of SEQ ID NO:109, b is an integer of 15 to 381, where both a and be correspond to the positions of nucleotide residues shown in SEQ ID NO:109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 337 of SEQ ID NO:110, b is an integer of 15 to
828669 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 367 of SEQ ID NO:109, b is an integer of 15 to 381, where both a and b correspond to the positions of nucleotide residues shown in SEO ID NO:109, and where b is streater than or equal to a + 14.  828670 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 337 of SEQ ID NO:110, b is an integer of 15 to
one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 367 of SEQ ID NO:109. bis an integer of 15 to 381, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are one or more polynucleotides comprising a mucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 337 of SEQ ID NO:110, b is an integer of 15 to
mucleotide sequence described by the general formula of a-b. where a is any integer between I to 367 of SEQ ID NO:109, b is an integer of 15 to 381, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:109, and where b is greater than or equal to a + 14.  828670 Perfeably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 337 of SEQ ID NO:10, b is an integer of 15 to
formula of a-b, where a is any integer between 1 to 367 of SEQ ID NO:109, b is an integer of 15 to 381, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 337 of SEQ ID NO:110, b is an integer of 15 to
367 of SEQ ID NO:109. b is an integer of 15 to 381, where both and b correspond to the positions of nucleotide residues shown in SEQ ID NO:109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 337 of SEQ ID NO:110, b is an integer of 15 to
381, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are on more polynucleotides comprising a nucleotide sequence described by the general formula of 8-b, where a is any integer between 1 to 337 of SEQ ID NO:110, b is an integer of 15 to
of nucleotide residues shown in SEQ ID No-109, and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 337 of SEQ ID No! 10, b is an integer of 15 to
and where b is greater than or equal to a + 14.  828670 Preferably excluded from the present invention are or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 337 of SEQ ID NO:110, b is an integer of 15 to
828670 Preferably excluded from the present invention are one or more polynucleotides comprising a mucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 337 of SEQ ID NO 110, b is an integer of 15 to
one or more polynucleotides comprising a mucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 337 of SEQ ID NO:110, b is an integer of 15 to
micleotide sequence described by the general formula of a-b, where a is any integer between 1 to 537 of SEQ ID NO: 110, b is an integer of 15 to
formula of a-b, where a is any integer between 1 to B37 of SEQ ID NO:110, b is an integer of 15 to
337 of SEQ ID NO:110, b is an integer of 15 to
of nucleotide residues shown in SEO ID NO:110,
and where b is greater than or equal to a + 14.
828671 Preferably excluded from the present invention are
one or more polynucleotides comprising a
nucleotide sequence described by the general
formula of a-b, where a is any integer between 1 to
1569 of SEO ID NO:111, b is an integer of 15 to
1583, where both a and b correspond to the
positions of nucleotide residues shown in SEQ ID
NO:111, and where b is greater than or equal to a +
14.
828672 Preferably excluded from the present invention are
one or more polynucleotides comprising a
nucleotide sequence described by the general
formula of a-b, where a is any integer between 1 to
417 of SEQ ID NO:112, b is an integer of 15 to

	431, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:112,	
Ĺ	and where b is greater than or equal to a + 14.	
828675	Preferably excluded from the present invention are	T56042, T56076, T39529, T39565,
	one or more polynucleotides comprising a	R20801, R20914, R99174, W76346,
	nucleotide sequence described by the general	AA070283. AA100602. AA186719.
	formula of a-b. where a is any integer between 1 to	AA192887, AA258594, AA258623,
1	2828 of SEQ ID NO:113, b is an integer of 15 to	AA262429. AA458551, AA425795,
	2842, where both a and b correspond to the	AA426147, AA426000, AA428422,
	positions of nucleotide residues shown in SEQ 1D	AA428672, AA429274, AA429569,
	NO:113, and where b is greater than or equal to a +	AA429700, AA280808, AA280860,
	14.	AA583152. AA604621, AA573460.
		AA737552, AA745643, AA809317.
		AA811436, AA831842, AA832058,
		AA837490. AA847879. Al089925,
		AA070162
828677	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	254 of SEQ 1D NO:114, b is an integer of 15 to	
	268, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:114.	
	and where b is greater than or equal to a + 14	
828678	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	786 of SEQ ID NO:115, b is an integer of 15 to	
1	800, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:115,	
828679	and where b is greater than or equal to a + 14.  Preferably excluded from the present invention are	
828079	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
1	632 of SEQ ID NO:116, b is an integer of 15 to	
	646, where both a and b correspond to the positions	
1	of nucleotide residues shown in SEO ID NO:116,	
	and where b is greater than or equal to a + 14.	
828680		N64514, N70990, W01522,
		AA025937, AA025996, AA210760,
		AA215724, AA761682, AA768989,
		AA911839
	1520 of SEQ ID NO:117, b is an integer of 15 to	
	1534, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:117, and where b is greater than or equal to a +	
	14.	
828681	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
1	325 of SEQ ID NO:118, b is an integer of 15 to	
	339, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:118,	
	and where b is greater than or equal to a + 14.	

828682	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nueleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	651 of SEQ ID NO:119, b is an integer of 15 to	
	665, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:119.	
	and where b is greater than or equal to a + 14.	
828683	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
	608 of SEQ ID NO:120, b is an integer of 15 to	
	622, where both a and b correspond to the positions	
1	of nuclcotide residues shown in SEQ 1D NO:120.	
	and where b is greater than or equal to a + 14.	
828686	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
i	nucleotide sequence described by the general	
1	formula of a-b. where a is any integer between 1 to	
	875 of SEQ ID NO:121, b is an integer of 15 to	
	889, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ 1D NO:121,	
	and where b is greater than or equal to a + 14.	
828687	Preferably excluded from the present invention are	
i	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
İ	formula of a-b, where a is any integer between 1 to	
	118 of SEQ ID NO:122, b is an integer of 15 to	
	132, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:122,	
	and where b is greater than or equal to a + 14.	
828688	Preferably excluded from the present invention arc	T92794, T92816, N50876. W20089,
1	one or more polynucleotides comprising a	N90429, AA086404, AA112766,
ì	nucleotide sequence described by the general	AA130846. AA195042, AA194974,
		AA235868, AA554284, AA639411,
	1886 of SEQ ID NO:123, b is an integer of 15 to	AA573456, AA804901, AA828540
	1900, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
1	NO:123, and where b is greater than or equal to a +	
	14.	
828689	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1236 of SEQ ID NO:124, b is an integer of 15 to	
	1250, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ 1D	
	NO:124, and where b is greater than or equal to a +	
	14.	
828692		T72780. R07981. R09868, T96304,
1		H51978
1	nueleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
	1175 of SEQ ID NO:125, b is an integer of 15 to	
I	1189, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ 1D	

1	NO:125, and where b is greater than or equal to a +	
	14.	
828693	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	414 of SEQ ID NO:126, b is an integer of 15 to	
i	428, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:126,	
000101	and where b is greater than or equal to a + 14.	0.000.00
828694	Preferably excluded from the present invention are	R02262
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
	631 of SEQ ID NO:127, b is an integer of 15 to	
	645, where both a and b correspond to the positions	
	of nuclcotide residues shown in SEQ ID NO:127.	
828696	and where b is greater than or equal to a + 14.  Preferably excluded from the present invention are	
828090		
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to 482 of SEO ID NO:128, b is an integer of 15 to	
	496, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:128,	
1	and where b is greater than or equal to a + 14.	
828697		4.050062
828697		AA059063
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to	
	410 of SEQ ID NO:129, b is an integer of 15 to 424, where both a and b correspond to the positions	
1	of nucleotide residues shown in SEQ 1D NO:129,	
	and where b is greater than or equal to a + 14	
828699		R75912, H40206, H40207, H41559,
020099		R87478, H52696, H52717, N40190,
		AA503759, AA504325, AA553825.
		AA553899. H64647. AA582193.
1		AA580220, AA687790, AA809845,
		AA917674, AA935183, AI004172,
		A1027576, C14410, C14461,
		C14497, C14511
	14.	011171, 011311
828702		N79392
020.02	one or more polynucleotides comprising a	[
1	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between I to	
i	852 of SEQ ID NO:131, b is an integer of 15 to	
	866, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ 1D NO:131,	
1	and where b is greater than or equal to a + 14.	
828703		T69829, R59224, H11661,
1		AA587352, AA807572, AA806747,
		AA865576, AA912231, AI002338
1	formula of a-b, where a is any integer between 1 to	
1	1579 of SEO ID NO:132, b is an integer of 15 to	
1	1593, where both a and b correspond to the	
	doing a sing o contemporar to the	

	positions of nucleotide residues shown in SEQ ID	
1	NO:132, and where b is greater than or equal to a +	
	14.	
828704	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
Ì	394 of SEQ 1D NO:133. b is an integer of 15 to	
1	408, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:133,	
22222	and where b is greater than or equal to a + 14.	
828706	Preferably excluded from the present invention are	AA099313, AA099927, AA101522,
1	one or more polynucleotides comprising a	AA101521, AA102781, AA102782.
i	nucleotide sequence described by the general	AA126249. AA134732. AA459009.
	formula of a-b, where a is any integer between 1 to	AA459230. AA524248. AA524247.
	2727 of SEQ ID NO:134, b is an integer of 15 to 2741, where both a and b correspond to the	AA622869, AA744977, AA933725, A1000417, U65740
		A1000417, U65740
-	positions of nucleotide residues shown in SEQ ID NO:134, and where b is greater than or equal to a +	
	14.	
828708	Preferably excluded from the present invention are	AA736960
020700	one or more polynucleotides comprising a	11.750,00
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
	672 of SEQ ID NO:135, b is an integer of 15 to	
	686, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:135,	
	and where b is greater than or equal to a + 14.	
828711	Preferably excluded from the present invention are	
1	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
1	228 of SEQ 1D NO:136, b is an integer of 15 to	
1	242, where both a and b correspond to the positions	
l	of nucleotide residues shown in SEQ 1D NO:136,	
	and where b is greater than or equal to a + 14.	
828712	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	531 of SEQ ID NO:137, b is an integer of 15 to	
1	545, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:137,	
	and where b is greater than or equal to a + 14.	
828713	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
i	nucleotide sequence described by the general	
١.	formula of a-b, where a is any integer between I to	
Ι΄.	382 of SEQ ID NO:138, b is an integer of 15 to	
1	396, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ 1D NO:138.	
828714	and where b is greater than or equal to a + 14.	
828714	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	2757 of SEQ ID NO:139. b is an integer of 15 to	

1	2771. where both a and b correspond to the	
1	positions of nucleotide residues shown in SEQ ID	
	NO.139, and where b is greater than or equal to a + 14.	
828715	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
	408 of SEQ ID NO: 140, b is an integer of 15 to	
i .	422, where both a and b correspond to the positions	
1	of nucleotide residues shown in SEQ ID NO:140. and where b is greater than or equal to a + 14.	
828718	Preferably excluded from the present invention arc	R52059, R52058, H85868,
020/10	one or more polynucleotides comprising a	W92475, AA046292, AA463500,
	nucleotide sequence described by the general	AA463546, AA576113, AA862446
i	formula of a-b, where a is any integer between I to	AA370115, AA802440
1	1616 of SEO ID NO:141, b is an integer of 15 to	
	1630, where both a and b correspond to the	
Ì	positions of nucleotide residues shown in SEO ID	
	NO:141, and where b is greater than or equal to a +	
	14.	
828723	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between I to	
	250 of SEQ ID NO:142, b is an integer of 15 to	
	264, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:142, and where b is greater than or equal to a + 14.	
828726	Preferably excluded from the present invention are	
020720	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	622 of SEQ ID NO:143, b is an integer of 15 to	
	636. where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:143,	
	and where b is greater than or equal to a + 14.	
828728		N39508, W05658, AA083301,
	one or more polynucleotides comprising a nucleotide sequence described by the general	AA159253, AA195825
	formula of a-b, where a is any integer between 1 to	
	486 of SEQ ID NO:144, b is an integer of 15 to	
	500, where both a and b correspond to the positions	
1	of nucleotide residues shown in SEQ ID NO:144,	
1	and where b is greater than or equal to a + 14.	
828730	Preferably excluded from the present invention are	
1	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
1	1931 of SEQ ID NO:145, b is an integer of 15 to	
	1945, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
1	NO:145, and where b is greater than or equal to a -	
828732	Preferably excluded from the present invention are	
020/32	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	January Control of the Scholar	

	formula of a-b. where a is any integer between 1 to	
	1100 of SEQ ID NO:146. b is an integer of 15 to	1
1	1114, where both a and b correspond to the	1
	positions of nucleotide residues shown in SEQ ID	
	NO:146, and where b is greater than or equal to a +	
	14.	
828733	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
Į.	532 of SEQ 1D NO:147, b is an integer of 15 to	
l .	546, where both a and b correspond to the positions	1
	of nucleotide residues shown in SEQ ID NO:147,	i
	and where b is greater than or equal to a + 14.	
828735	Preferably excluded from the present invention are	
1	one or more polynucleotides comprising a	•
	nucleotide sequence described by the general	
1	formula of a-b. where a is any integer between 1 to	
ĺ	1749 of SEQ ID NO:148. b is an integer of 15 to	
	1763, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:148, and where b is greater than or equal to a +	
	14.	
828736	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between I to	
	357 of SEQ ID NO:149, b is an integer of 15 to	
l	371, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:149,	
	and where b is greater than or equal to a + 14.	
828739	Preferably excluded from the present invention are	R36043
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	418 of SEQ ID NO:150, b is an integer of 15 to	
	432, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:150,	
000010	and where b is greater than or equal to a + 14.	
828740	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
l	387 of SEQ ID NO:151, b is an integer of 15 to	
	401, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:151.	
828742	and where b is greater than or equal to a + 14.	
828742	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
1	837 of SEQ ID NO:152, b is an integer of 15 to	
	851, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:152,	
920740	and where b is greater than or equal to a + 14.	
828748		AA225966, AA226113, AA229173,
	one or more polynucleotides comprising a	AA229167. AA229535. AA243985.

	nucleotide sequence described by the general	AA244099, AA244206, AA259243,
	formula of a-b, where a is any integer between 1 to	AA420690. AA467761. AA467944.
	1664 of SEQ ID NO:153. b is an integer of 15 to	AA468120. AA468151. AA468187.
	1678, where both a and b correspond to the	AA468326, AA468918, AA468995,
	positions of nucleotide residues shown in SEQ ID	AA469129. AA469199. AA470575.
	NO:153, and where b is greater than or equal to a +	AA502955, AA503272, AA506649,
	14	AA507335. AA507799. AA514825,
		AA522473. AA522848. AA524651.
		AA524893, AA525058, AA531386,
		AA532387. AA532926. AA534072.
	1	AA534246. AA535303. AA535837,
		AA551447. AA551738, AA558900,
		AA588263, AA587715, AA593380,
		AA595047. AA595357. AA595465.
		AA595601, AA603572. AA604709,
		AA635888, AA640473, AA569666,
		AA569670, AA573539, AA573587,
		AA574390. AA578439. AA578628,
		AA579001. AA579026, AA579117,
		AA579310, AA565962, AA566046,
		AA654974, AA657781, AA657831,
		AA658156, AA658207, AA658243,
		AA658463, AA658877, AA659198,
		AA659306, AA687563, AA687852,
		AA742871, AA876666, AA887095,
		AA888488, AA934855, AA935419,
		AA937807, AA937854, AA978237
828749	Preferably excluded from the present invention are	T65384, R46577, R52660, R46577,
	one or more polynucleotides comprising a	H11492, N73810, N99718,
	nucleotide sequence described by the general	AA121044, AA126520, AA126579,
	formula of a-b, where a is any integer between 1 to	AA126687
	1144 of SEQ ID NO:154, b is an integer of 15 to	
	1158, where both a and b correspond to the	1
	positions of nucleotide residues shown in SEQ ID	1
	NO:154, and where b is greater than or equal to a +	Ì
	14.	
828752	Preferably excluded from the present invention are	AA492170
	one or more polynucleotides comprising a	1
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	1
	1955 of SEQ ID NO:155, b is an integer of 15 to	
	1969, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:155, and where b is greater than or equal to a +	Ì
	14.	
828753	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	Į.
	formula of a-b, where a is any integer between 1 to	1
	386 of SEQ ID NO:156, b is an integer of 15 to	
	400, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:156,	
	and where b is greater than or equal to a + 14.	
828754		N42714, N32500
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	

	708 of SEQ ID NO:157, b is an integer of 15 to	
	722, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:157.	
	and where b is greater than or equal to a + 14.	
828757	Preferably excluded from the present invention are	T90246, T90691, R14702, R34647,
	one or more polynucleotides comprising a	R42424. R49176. R42424. R49176.
ł	nucleotide sequence described by the general	H06287, H06339. H14778. N69116.
ı		C03936, C15913
1	1186 of SEQ ID NO:158, b is an integer of 15 to	
l l	1200, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ 1D	
1	NO:158. and where b is greater than or equal to a +	
	14.	
828761	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
	331 of SEQ ID NO:159, b is an integer of 15 to	
	345, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:159.	
	and where b is greater than or equal to a + 14.	
828762	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	462 of SEO ID NO:160, b is an integer of 15 to	
	476, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:160,	
	and where b is greater than or equal to a + 14.	
828764	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between I to	
1	506 of SEQ ID NO:161, b is an integer of 15 to	
1	520, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:161,	
	and where b is greater than or equal to a + 14.	
828765	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	325 of SEQ ID NO:162, b is an integer of 15 to	
1	339, where both a and b correspond to the positions	
	of nucleotide residues shown in SEO ID NO:162.	
1	and where b is greater than or equal to a + 14.	
828766	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
ł	formula of a-b, where a is any integer between 1 to	
	343 of SEO ID NO:163, b is an integer of 15 to	
	357, where both a and b correspond to the positions	
1	of nuclcotide residues shown in SEQ ID NO:163,	
	and where b is greater than or equal to a + 14.	
828767	Preferably excluded from the present invention are	
020707	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	pormula or a-b, where a is any integer between 1 to	

	1065 of SEQ 1D NO:164. b is an integer of 15 to	
	1079, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:164, and where b is greater than or equal to a +	
	14.	
828768	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to	
	1311 of SEO ID NO:165, b is an integer of 15 to	
	1325, where both a and b correspond to the	į .
	positions of nucleotide residues shown in SEO ID	
	NO:165, and where b is greater than or equal to a +	
	14.	
828770	Preferably excluded from the present invention are	
020770	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between I to	
i	380 of SEQ ID NO:166, b is an integer of 15 to	
i	394, where both a and b correspond to the positions	
	of nucleotide residues shown in SEO ID NO:166.	
	and where b is greater than or equal to a + 14.	
828771	Preferably excluded from the present invention are	
1	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	1
	formula of a-b, where a is any integer between 1 to	
	503 of SEQ ID NO:167, b is an integer of 15 to	
i	517, where both a and b correspond to the positions	1
	of nucleotide residues shown in SEQ ID NO:167,	į .
<u> </u>	and where b is greater than or equal to a + 14.	
828772	Preferably excluded from the present invention are	
ĺ	one or more polynucleotides comprising a nucleotide sequence described by the general	1
	formula of a-b, where a is any integer between 1 to	
ļ	327 of SEO ID NO:168, b is an integer of 15 to	
1	341, where both a and b correspond to the positions	
ŀ	of nucleotide residues shown in SEO ID NO:168.	
	and where b is greater than or equal to a + 14.	
828773	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	i
1	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	336 of SEQ ID NO:169, b is an integer of 15 to	
1	350, where both a and b correspond to the positions	
1	of nucleotide residues shown in SEQ ID NO:169,	
	and where b is greater than or equal to a + 14.	
828775	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between I to	
	427 of SEQ ID NO:170, b is an integer of 15 to	
	441, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:170,	
828776	and where b is greater than or equal to a + 14.	AA127485
028//6	Preferably excluded from the present invention are one or more polynucleotides comprising a	AA12/403
1	nucleotide sequence described by the general	
	proceeding sequence described by the general	

1	formula of a-b. where a is any integer between 1 to	
	389 of SEQ ID NO:171. b is an integer of 15 to	
	403, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:171.	
	and where b is greater than or equal to a + 14.	
828777	Preferably excluded from the present invention are	T86451, R87531, R87627, R91402,
	one or more polynucleotides comprising a	R92659, H98729, N24299,
	nucleotide sequence described by the general	W19089, W20421, AA454940,
	formula of a-b, where a is any integer between 1 to	AA605076, AA639539, AA662751,
	970 of SEQ ID NO:172, b is an integer of 15 to	AA714010, AA743934, AA746310,
1		AA888099, AA953728, AA976688,
	of nucleotide residues shown in SEQ ID NO:172.	AI027564
	and where b is greater than or equal to a + 14.	
828778	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	t
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1180 of SEQ ID NO:173, b is an integer of 15 to	
1	1194. where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:173, and where b is greater than or equal to a +	
	14.	
828780	Preferably excluded from the present invention are	
020700	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
ı	687 of SEQ ID NO:174, b is an integer of 15 to	
	701, where both a and b correspond to the positions	
	of nucleotide residues shown in SEO ID NO:174,	
1		
828781	and where b is greater than or equal to a + 14.  Preferably excluded from the present invention are	219970 24000
828/81		R17769, R39304, R42342, R42342,
	one or more polynucleotides comprising a	R61526. H05114. H08622. N63035.
1		AA039717, AA039716, AA039852,
	formula of a-b, where a is any integer between 1 to	AA235700, AA255466, AA461108,
1	1167 of SEQ ID NO:175, b is an integer of 15 to	AA918115, AA938595, W00511,
	1181, where both a and b correspond to the	C00278
	positions of nucleotide residues shown in SEQ ID	
	NO:175, and where b is greater than or equal to a +	
	14.	
828782	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
1	475 of SEQ ID NO:176, b is an integer of 15 to	
1	489, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ 1D NO:176,	
	and where b is greater than or equal to a + 14.	
828783	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
1	formula of a-b. where a is any integer between 1 to	
	239 of SEQ ID NO:177, b is an integer of 15 to	
	253, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:177,	
	and where b is greater than or equal to a + 14.	
828784	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	one or more polynucleotides comprising a	

	nucleotide sequence described by the general	
Į.	formula of a-b, where a is any integer between 1 to	
	379 of SEQ ID NO.178, b is an integer of 15 to	
1	393, where both a and b correspond to the positions	
	of nucleotide residues shown in SEO ID NO:178.	
	and where b is greater than or equal to a + 14.	
828785	Preferably excluded from the present invention are	H28735, AA541256, AA935694
020705	one or more polynucleotides comprising a	1120755; AA541250; AA955094
	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between I to	
	451 of SEO ID NO:179, b is an integer of 15 to	
1	465, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:179,	
000001	and where b is greater than or equal to a + 14.	
828786		T50920
i	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between I to	
	518 of SEQ ID NO:180. b is an integer of 15 to	
1	532, where both a and b correspond to the positions	
	of nuclcotide residues shown in SEQ ID NO:180,	
	and where b is greater than or equal to a + 14.	
828788		AA765439
	one or more polynucleotides comprising a	
i	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
	800 of SEQ ID NO:181, b is an integer of 15 to	
	814, where both a and b correspond to the positions	
1	of nucleotide residues shown in SEQ ID NO:181,	
1	and where b is greater than or equal to a + 14.	
828790	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
	303 of SEO ID NO:182, b is an integer of 15 to	
	317, where both a and b correspond to the positions	
1	of nucleotide residues shown in SEQ ID NO:182,	
	and where b is greater than or equal to a + 14.	
828791	Preferably excluded from the present invention are	·
020771	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
	229 of SEQ ID NO:183, b is an integer of 15 to	
	243, where both a and b correspond to the positions	
1	of nucleotide residues shown in SEO 1D NO:183.	
	and where b is greater than or equal to a + 14.	
828792	Preferably excluded from the present invention are	
020172	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
1	1134 of SEO ID NO:184, b is an integer of 15 to	
	1148, where both a and b correspond to the	
	nositions of nucleotide residues shown in SEO ID	
	NO:184, and where b is greater than or equal to a +	
020704		
828794	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	

	nucleotide sequence described by the general	
!	formula of a-b. where a is any integer between I to	
	1957 of SEO ID NO:185, b is an integer of 15 to	
	1971, where both a and b correspond to the	
1	positions of nucleotide residues shown in SEQ ID	
	NO:185, and where b is greater than or equal to a +	
	14.	
828797	Preferably excluded from the present invention are	
020777	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
	352 of SEO ID NO:186, b is an integer of 15 to	
	366, where both a and b correspond to the positions	
	of nucleotide residues shown in SEO ID NO:186.	
828798	and where b is greater than or equal to a + 14.	
828798	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between I to	
	336 of SEQ ID NO:187, b is an integer of 15 to	
	350, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:187.	
	and where b is greater than or equal to a + 14	
828799		R92181
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between I to	
	361 of SEQ ID NO:188, b is an integer of 15 to	
	375, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:188,	
	and where b is greater than or equal to a + 14.	
828801	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between I to	
	351 of SEQ ID NO:189, b is an integer of 15 to	
	365, where both a and b correspond to the positions	
	of nucleotide residues shown in SEO ID NO:189,	
	and where b is greater than or equal to a + 14.	
828802	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	•
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	803 of SEQ ID NO:190, b is an integer of 15 to	
	817, where both a and b correspond to the positions	
	of nucleotide residues shown in SEO 1D NO:190.	
	and where b is greater than or equal to a + 14.	
828803	Preferably excluded from the present invention are	
020003	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	576 of SEQ ID NO:191, b is an integer of 15 to	
	590, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:191,	
	and where b is greater than or equal to a + 14.	
828804	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	

	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	294 of SEQ ID NO:192. b is an integer of 15 to	
	308, where both a and b correspond to the positions	
i	of nucleotide residues shown in SEQ ID NO:192.	
	and where b is greater than or equal to a + 14	
828805	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
-	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	329 of SEQ ID NO:193, b is an integer of 15 to	
	343, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ 1D NO:193,	
	and where b is greater than or equal to a + 14.	
828807	Preferably excluded from the present invention are	AA507550, AA613671, AA991871,
	one or more polynucleotides comprising a	A1073898
ļ	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
	676 of SEQ ID NO:194, b is an integer of 15 to	
	690. where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:194,	
	and where b is greater than or equal to a + 14.	
828809	Preferably excluded from the present invention are	
1	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	223 of SEQ ID NO:195, b is an integer of 15 to	
1	237, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:195,	
000010	and where b is greater than or equal to a + 14.	
828810	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	253 of SEO ID NO:196, b is an integer of 15 to	
ļ	267, where both a and b correspond to the positions	
	of nucleotide residues shown in SEO ID NO:196.	
	and where b is greater than or equal to a + 14.	
828811	Preferably excluded from the present invention are	
020011	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
1	429 of SEQ ID NO:197, b is an integer of 15 to	
	443, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:197,	
	and where b is greater than or equal to a + 14.	
828817	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between I to	
	194 of SEO ID NO:198, b is an integer of 15 to	
	208, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:198,	
	and where b is greater than or equal to a + 14.	
828818	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	

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		formula of a-b. where a is any integer between 1 to	
		244 of SEQ ID NO:199, b is an integer of 15 to	
		258, where both a and b correspond to the positions	
		of nucleotide residues shown in SEQ ID NO:199,	
$\vdash$		and where b is greater than or equal to a + 14.	
1	828819	Preferably excluded from the present invention are	R28397, R35050, R82429,
		one or more polynucleotides comprising a	AA523252. AA541515. AA888589,
		nucleotide sequence described by the general	AA931260. AA969512. N90287
		formula of a-b. where a is any integer between 1 to	
1		879 of SEQ ID NO:200, b is an integer of 15 to	
1		893, where both a and b correspond to the positions	1
		of nucleotide residues shown in SEQ ID NO:200,	
$\vdash$	828820	and where b is greater than or equal to a + 14.	
	828820	Preferably excluded from the present invention are one or more polynucleotides comprising a	
i		nucleotide sequence described by the general	
1		formula of a-b, where a is any integer between 1 to	
		489 of SEQ ID NO:201, b is an integer of 15 to	
		503. where both a and b correspond to the positions	
1		of nucleotide residues shown in SEO ID NO:201.	
1		and where b is greater than or equal to a + 14	
$\vdash$	828821	Preferably excluded from the present invention are	
1	020021	one or more polynucleotides comprising a	
1		nucleotide sequence described by the general	
ı		formula of a-b. where a is any integer between 1 to	
ĺ		424 of SEQ ID NO:202, b is an integer of 15 to	
		438, where both a and b correspond to the positions	
		of nucleotide residues shown in SEO ID NO:202.	i
		and where b is greater than or equal to a + 14.	
$\vdash$	828823	Preferably excluded from the present invention are	
		one or more polynucleotides comprising a	
		nucleotide sequence described by the general	
		formula of a-b. where a is any integer between I to	
1		862 of SEQ ID NO:203, b is an integer of 15 to	
1		876, where both a and b correspond to the positions	
1		of nuclcotide residues shown in SEQ ID NO:203,	
1		and where b is greater than or equal to a + 14.	
	828824	Preferably excluded from the present invention are	T63961, R37805, R41200, R41200,
		one or more polynucleotides comprising a	H06703, H14569, N35284,
			W84891, W84386, AA020009.
		formula of a-b, where a is any integer between I to	AA115923, AA191098, AA720881.
İ		1490 of SEQ ID NO:204, b is an integer of 15 to	AA825322, AA007194
		1504, where both a and b correspond to the	
		positions of nucleotide residues shown in SEQ ID	
		NO:204, and where b is greater than or equal to a +	
_	_	14.	
1	828825		T90840. R97506, R97507, H56561,
			H90159, AA548594
1		nucleotide sequence described by the general	
		formula of a-b, where a is any integer between I to	
		511 of SEQ ID NO:205, b is an integer of 15 to	
		525, where both a and b correspond to the positions	
		of nucleotide residues shown in SEQ ID NO:205.	
<u></u>		and where b is greater than or equal to a + 14.	
3	828826		R54121, H53524, H83780, N33845,
			AA150188, AA150364, AA193510,
		nucleotide sequence described by the general	AA236206. AA236207, AA256878.

	formula of a-b, where a is any integer between 1 to	AA255472, AA292484, AA292485,
	2480 of SEQ ID NO:206, b is an integer of 15 to	AA514616. AA808712. AA812205
	2494, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:206, and where b is greater than or equal to a +	
1	14.	
828829	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	1
	formula of a-b, where a is any integer between I to	
	866 of SEO ID NO:207, b is an integer of 15 to	1
	880, where both a and b correspond to the positions	
	of nucleotide residues shown in SEO ID NO:207.	
	and where b is greater than or equal to a + 14.	
828830		W47311
020050	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	ł
	formula of a-b. where a is any integer between I to	
	626 of SEO ID NO:208, b is an integer of 15 to	
	640, where both a and b correspond to the positions	
1	of nucleotide residues shown in SEO ID NO:208.	
	and where b is greater than or equal to a + 14.	
828833	Preferably excluded from the present invention are	
020033	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between I to	
	289 of SEO ID NO:209, b is an integer of 15 to	
	303, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ 1D NO:209,	
	and where b is greater than or equal to a + 14.	
828835	Preferably excluded from the present invention are	
020033	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1154 of SEO ID NO:210, b is an integer of 15 to	
	1168, where both a and b correspond to the	
	positions of nucleotide residues shown in SEO ID	
	NO:210, and where b is greater than or equal to a +	
	14.	
828838	Preferably excluded from the present invention are	
020000	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	3119 of SEQ ID NO:211, b is an integer of 15 to	
1	3133, where both a and b correspond to the	
	positions of nucleotide residues shown in SEO ID	
	NO:211, and where b is greater than or equal to a +	:
	14.	
828840	Preferably excluded from the present invention are	T67663, N51807, N94795
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
l	formula of a-b, where a is any integer between 1 to	
1	666 of SEQ ID NO:212, b is an integer of 15 to	
1	680, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:212,	
	and where b is greater than or equal to a + 14.	
828845		AA278542

	one or more polynucleotides comprising a nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
İ	549 of SEQ ID NO:213. b is an integer of 15 to	
İ	563, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:213,	
	and where b is greater than or equal to a + 14.	
828846	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	1
1	formula of a-b, where a is any integer between I to	
	2622 of SEQ ID NO:214, b is an integer of 15 to	
	2636, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
1	NO:214, and where b is greater than or equal to a +	
	14.	
828847	Preferably excluded from the present invention are	
020011	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
	1808 of SEQ 1D NO:215, b is an integer of 15 to	
	1822, where both a and b correspond to the	
	positions of nucleotide residues shown in SEO ID	
	NO:215, and where b is greater than or equal to a +	
	14.	
828849	Preferably excluded from the present invention are	
020049	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
1		
1	formula of a-b, where a is any integer between 1 to 3113 of SEO ID NO:216, b is an integer of 15 to	
ļ	3127, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:216, and where b is greater than or equal to a + 14.	
828850		TOO 142 TOO TOO DOODES DOUGLO
828830	Preferably excluded from the present invention are	T89442, T89529, R00855, R01510.
	one or more polynueleotides comprising a	R17037, R44677, R44677, W71999.
	nucleotide sequence described by the general	W76568, AA028176, AA594435,
1	formula of a-b, where a is any integer between 1 to	AA630811, AA640365, AA570503,
1	1515 of SEQ ID NO:217, b is an integer of 15 to	AA827402. AI001038
1	1529, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:217, and where b is greater than or equal to a +	
	14.	
828852		N25191, N51394, AA085653
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between I to	
	1086 of SEQ ID NO:218, b is an integer of 15 to	
	1100, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
1	NO:218, and where b is greater than or equal to a +	
	14.	
828853		T69893, R23246, R23322, R23610.
		R26164, R76851, R78355, R78356,
1		W37071, AA281297. AA281298,
	formula of a-b, where a is any integer between I to	AA287617, AA286726, AA830753,
	1778 of SEQ ID NO:219, b is an integer of 15 to	AA907191, AA937081

	1792, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:219, and where b is greater than or equal to a + 14.	
828857	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1296 of SEQ ID NO.22b. b is an integer of 15 to 1310, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.22b. and where b is greater than or equal to a + 14.	H87149, N29514, N32038, W49771, W69834, W69944, W69906, W70171, AA035645, AA262486, AA280793, AA280787, AA468735, AA470769, AA814845, AA877855, AA903806
828861	Preferably excluded from the present invention are not or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer retween 1 to 1355 of SEQ ID NO.221, b is an integer of 15 to 1369, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.221, and where b is greater than or equal to a + 14.	
828866	Preferably excluded from the present invention are one or more polyuncleoidies comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 778 of SEQ 1D NO.222, b is an integer of 15 to 792, where both a and b correspond to the positions of nucleotide residues shown in SEQ 1D NO.222, and where b is greater than or couls 10 a ± 14.	R17863, H06471, AA157721
828872		R87888, R87900, R87908. N49168, AA931266
828874	Preferably excluded from the present invention are nee or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1965 of SEQ ID NO.224, b is an integer of 15 to 1979, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.224, and where b is greater than or equal to a + 14.	187038. R70347, H39025, R91475, H57830, H59954, H62220, H62316, H65258, H65259, H95743, N54406, W25201, W32973, W69360, W69399, W84707, W90181, AAU6489, AA058908, AA059484, AA126289, AA126390, AA127568, AA171412. AA171832, AA548030, AA593288, AA595330, AA622098, AA573531, AA574415, AA65643
828875	Preferably excluded from the present invention are one or more polynucleotides comprising nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 527 of SEQ 10 NO:225. b is an integer of 15 to 541, where both a and b correspond to the positions of nucleotide residues shown in SEQ 10 NO:225, and where b is greater than or equal to a + 14.	
828877	Preferably excluded from the present invention are	

	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	263 of SEQ ID NO:226, b is an integer of 15 to	
	277, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:226,	
	and where b is greater than or equal to a + 14	
828878	Preferably excluded from the present invention are	T66330. R26894, R27126, R69123.
1	one or more polynucleotides comprising a	R69242, R82299, R82300, W07548,
	nucleotide sequence described by the general	W40127, W61081, W63740.
	formula of a-b, where a is any integer between I to	AA088736. AA088851. AA416637,
1	2055 of SEQ ID NO:227. b is an integer of 15 to	AA425692, AA587736, AA574419,
	2069, where both a and b correspond to the	AA659481. AA746137, AA827964.
	positions of nucleotide residues shown in SEQ ID	AA873416. AA876962, AA886118,
		AA913307. W63541. AA091722
	14.	
828879	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to 457 of SEQ ID NO:228, b is an integer of 15 to	
	471, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:228,	
	and where b is greater than or equal to a + 14.	
828881	Preferably excluded from the present invention are	
020801	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between I to	
	1626 of SEQ ID NO:229, b is an integer of 15 to	
	1640, where both a and b correspond to the	
	positions of nucleotide residues shown in SEO ID	
	NO:229, and where b is greater than or equal to a +	
	14.	
828885	Preferably excluded from the present invention are	T66265, R00322, R05577, R14288,
	one or more polynucleotides comprising a	R40578, N35835, W67698,
1	nucleotide sequence described by the general	W68707, AA226782, AA227401,
	formula of a-b, where a is any integer between 1 to	AA917573, A1096970, C01407
	1956 of SEQ ID NO:230, b is an integer of 15 to	
	1970, where both a and b correspond to the	
1	positions of nucleotide residues shown in SEQ ID	
	NO:230, and where b is greater than or equal to a +	
	14.	
828886	Preferably excluded from the present invention are	
1	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	296 of SEQ ID NO:231, b is an integer of 15 to	
1	310. where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:231,	
	and where b is greater than or equal to a + 14.	
828887	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
1	2819 of SEQ ID NO:232. b is an integer of 15 to	
1	2833, where both a and b correspond to the	
L	positions of nucleotide residues shown in SEQ ID	

	NO:232, and where b is greater than or equal to a + 14.	
828889	Preferably excluded from the present invention are one or more polynucleotides comprising an uncleotide sequence described by the general formula of a-b, where a is any integer between 1 to 678 of SEQ ID NO.233, b is an integer of 15 to 692, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.233, and where b is greater than or equal to a +1 the	A1084904. N87764
828891	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1339 of SEQ ID NO.234, b is an integer of 15 to 1353, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.234, and where b is greater than or equal to a + 14.	
828899	Preferably excluded from the present invention are one or more polyuncleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 323 of SEQ ID NO:235, b is an integer of 15 to 346, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:235, and where b is greater than or coulst to a + 14.	
828907	Preferably excluded from the present invention are one or more polynucleotides comprising nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 2271 of SEQ ID NO.236, b is an integer of 15 to 2271, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.236, and where b is greater than or equal to a + 14.	
828911	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 3036 of SEQ ID NO.237, b is an integer of 15 to 3050, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.237, and where b is greater than or equal to a + 14.	
828914	Preferably excluded from the present invention are not or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2788 of SEQ, bit No.238, b is an integer of 15 to 2802, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.238, and where b is greater than or equal to a + 14.	
828917	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general	T48789, T48790, T52689, T52690, T54143, T57627, T58981, T60334, T63023, T63169, T64611, T68165.

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formula of a-b, where a is any integer between 1 to T73770, T92858, R09683, R05784. R05870, R23705, R24243, R25436. 1523 of SEO ID NO:239, b is an integer of 15 to R26263, R26661, R31482, R33617. 1537, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID R52663, R54888, R55790, R63634, NO:239, and where b is greater than or equal to a + R64491, R65588, R66756, R74348, R74447, R77767, R77861, H24648. H24647, H25483, H25708, H25719. H30170, H39683, H42201, H50627, H61272, H74187, H73366, H84457. H96852, H97161, N21258, N24067 N25124, N25891, N32256, N35943. N39665, N59887, N74237, N75946. N77028, N91815, N94382, W01241, W04970, W16791, W31249, W37991, W42625, W42503, W42504, W45097, W46997, W47010, W47011, W47035, W58226, W60191. W74239, AA011342, AA011422, AA053421, AA053142, AA069730, AA069687, AA071401, AA079362, AA085841, AA088476, AA088867, AA099339, AA098900, AA099401, AA099509, AA099626, AA100481, AA111899, AA112344, AA128689. AA128504, AA130068, AA130069, AA133988, AA130205, AA134388, AA130699, AA131164, AA131119, AA135908, AA143614, AA148147, AA151655, AA151855, AA149710, AA150148, AA152217, AA150454, AA156656, AA156942, AA158064 AA158065, AA160927, AA167640, AA167760, AA173558, AA173723 AA188571, AA188806, AA188862 AA190996, AA191121, AA252461. AA286842, AA513431, AA523544, AA533369, AA534903, AA541751. AA548088, AA552311, AA563748. AA563790, AA564990, AA565005, AA588690, AA594295, AA600956. AA604061, AA604282, AA604810, AA614124, AA631612, AA632221, AA569331, AA573854, AA577627. AA579851, AA661566, AA689517, AA740358, AA740572, AA747358. AA768322, AA827032, AA831321. AA831490, AA862010, AA862071. AA872486, AA876655, AA878041. AA902900, AA907481, AA932203. AA976947, AA995848, A1005047, AI051152, AI053717, AI053913, A1053985, A1054236, F18795,

D82560, W28635, W68223, C02865, C05961, C06214, C14019, AA641827, AA642221

828921 Preferably excluded from the present invention are

828922	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1320 of SEQ ID NO.240. b is an integer of 15 to 1334, where both a and be correspond to the positions of nucleotide residues shown in SEQ ID NO.240, and where b is greater than or equal to a + 14.	
828922	Preferably excluded from the present invention are not or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 2424 of SEQ ID NO.241, b is an integer of 15 to 2438, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.241, and where b is greater than or equal to a + [14.	R14071, R40196, R40196, W78082, AA002041, AA001835, AA167058, AA564814, AA604562, AA831678, AA902298, AA922990, N88270
828924	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 125 of SEQ ID NO.242. b is an integer of 15 to 139, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.242, and where b is greater than or superior to greater than or superior superior to the present that the present that the positions of nucleotide residues shown in SEQ ID NO.242.	
828925	Preferably excluded from the present invention are one or more polynucleotides comprising nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 465 of SEQ ID NO:243, b is an integer of 15 to 479, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:243, and where b is greater than or coula to a + 14.	
828926	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 570 of SEQ ID NO-244, b is an integer of 13 to 584, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-244, and where b is greater than or equal to a + 14.	AA021328, AA165340
828928	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 318 of SEQ 10 NO:245, b is an integer of 15 to 332, where both a and b correspond to the positions of nucleotide residues shown in SEQ 110 NO:245, and where b is greater than or equal to a + 14.	
828930	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1603 of SEQ ID NO.246, b is an integer of 15 to 1617, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID	R13197, R22953, R23059, R34735, H16860, H17441, H30722, H96486, H98091, N25031, N26040, W37582, W74506, W73933, W79218, W79053, AA017108, AA027970, AA027971, AA058997, AA23857, AA468648, AA506695, AA513402, AA627542, AA627543,

AA766153. AA769265. AA81087 AA81187. AA811374. AA972131 AA8128. AA8117374. AA972131 AA989380. A1088862. N85247  Deferably excluded from the present invention are not or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 143 of SEQ 10 NO 2478, and where b is greater than or equal to a + 4.  B28937 Preferably excluded from the present invention are me or more polynucleotide residues shown in SEQ 1D NO.247, and where b is greater than or equal to a + 4.  Preferably excluded from the present invention are me or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1470 of SEQ 1D NO.248. A sin mitteger of 15to 1434, where both a and b correspond to the positions of nucleotide residues shown in SEQ 1D NO.248. and where b is greater than or equal to a + 14.  NO.248. and where b is greater than or equal to a + 14.  NO.248. and where b is greater than or equal to a + 14.  NO.248. and where b is greater than or equal to a + 14.  NO.248. and where b is greater than or equal to a + 14.  NO.248. and where b is greater than or equal to a + 14.  NO.248. and where b is greater than or equal to a + 14.  NO.248. and where b is greater than or equal to a + 14.  NO.248. and where b is greater than or equal to a + 14.  NO.248. and where b is greater than or equal to a + 14.  NO.248. and where b is greater than or equal to a + 14.  NO.248. and where b is greater than or equal to a + 14.  NO.248. and where b is greater than or equal to a + 14.  NO.248. and where b is greater than or equal to a + 14.  NO.248. and where b is greater than or equal to a + 14.  NO.248. and where b is greater than or equal to a + 14.  NO.248. and where b is greater than or equal to a + 14.  NO.248. and where b is greater than or equal to a + 14.  NO.248. and where b is greater than or equal to a + 14.  NO.248. and where b is greater than or equal to a + 18.  NO.248. and where b is greater than or equal			
A810803. AA81177. AA81386 A815128. AA813734. AA90386 A815128. AA813734. AA90386 A815128. AA813734. AA903131 AA989380. A1088862. N85247  Preferably excluded from the present invention arc nor more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1435 of SEQ ID NO.247. b is an integer of 15 to 1449. where both a and b correspond to the positions of nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1470 of SEQ ID NO.248, b is an integer of 15 to 1484. where both a and be correspond to the positions of nucleotide residues shown in SEQ ID NO.248, and where b is greater than or equal to a + 14.  14.  15.  16.  16.  16.  16.  16.  16.  17.  17		14.	AA687974, AA748356, AA749265.
A810803. AA81177. AA81386 A815128. AA813734. AA90386 A815128. AA813734. AA90386 A815128. AA813734. AA903131 AA989380. A1088862. N85247  Preferably excluded from the present invention arc nor more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1435 of SEQ ID NO.247. b is an integer of 15 to 1449. where both a and b correspond to the positions of nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1470 of SEQ ID NO.248, b is an integer of 15 to 1484. where both a and be correspond to the positions of nucleotide residues shown in SEQ ID NO.248, and where b is greater than or equal to a + 14.  14.  15.  16.  16.  16.  16.  16.  16.  17.  17	1		AA766155, AA769265, AA810698.
R28935   Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1435 of SEQ ID NO.247, b is an integer of 15 to 1449, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.247, and where b is greater than or equal to a + 14.70 of SEQ ID NO.248, b is an integer between 1 to 1470 of SEQ ID NO.248, b is an integer between 1 to 1470 of SEQ ID NO.248, b is an integer between 1 to 1470 of SEQ ID NO.248, b is an integer between 1 to 1470 of SEQ ID NO.248, b is an integer between 1 to 1470 of SEQ ID NO.248, b is an integer between 1 to 1470 of SEQ ID NO.248, b is an integer of 15 to 1484, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.248, and where b is greater than or equal to a + 14.	1		AA810803, AA811177, AA813864.
828935 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 143 of SEQ ID NO.247 b, as an integer of 15 to 149, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.247, and where b is greater than or equal to a + 12. Preferably excluded from the present invention are more or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1470 of SEQ ID NO.248, b, as mitteger of 15 to 1494, where both a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1470 of SEQ ID NO.248, b, as mitteger of 15 to 1494, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID ID NO.248, and where b is greater than or equal to a + 14.  NO.248, and where b i	1		AA815128, AA837374, AA907206.
Referably excluded from the present invention are not more polymucleotides comprising a nucleotide sequence described by the general formula of a-b, where a last any integer between 1 to 1435 of SEQ ID NO.247, bit is an integer of 15 to 1449, where both a and be correspond to the positions of nucleotide residues shown in SEQ ID NO.247, and where b is greater than or equal to a + 12 to 1470 of SEQ ID NO.248, bit is an integer between 1 to 1470 of SEQ ID NO.248, bit is an integer between 1 to 1470 of SEQ ID NO.248, bit is an integer between 1 to 1470 of SEQ ID NO.248, bit is an integer between 1 to 1470 of SEQ ID NO.248, bit is an integer between 1 to 1470 of SEQ ID NO.248, bit is an integer between 1 to 1470 of SEQ ID NO.248, and where b is greater than or equal to a + 14 to 1470 of SEQ ID NO.248, and where b is greater than or equal to a + 14 to 1470 of SEQ ID NO.248, and where b is greater than or equal to a + 14 to 1470 of SEQ ID NO.248, and where b is greater than or equal to a + 14 to 1470 of SEQ ID NO.248, and where b is greater than or equal to a + 14 to 1470 of SEQ ID NO.248, and where b is greater than or equal to a + 14 to 1470 of SEQ ID NO.248, and where b is greater than or equal to a + 14 to 1470 of SEQ ID NO.248, and where b is greater than or equal to a + 14 to 1470 of SEQ ID NO.248, and where b is greater than or equal to a + 14 to 1470 of SEQ ID NO.248, and where b is greater than or equal to a + 14 to 1470 of SEQ ID NO.248, and where b is greater than or equal to a + 14 to 1470 of SEQ ID NO.248, and where b is greater than or equal to a + 14 to 1470 of SEQ ID NO.248, and where b is greater than or equal to a + 14 to 1470 of SEQ ID NO.248, and where b is greater than or equal to a + 14 to 1470 of SEQ ID NO.248, and where b is greater than or equal to a + 14 to 1470 of SEQ ID NO.248, and where b is greater than or equal to a + 14 to 1470 of SEQ ID NO.248, and where b is greater than or equal to a + 14 to 1470 of SEQ ID NO.248, and where b is greater than or equal to a + 14 to 1470 of SEQ ID NO.			AA907432, AA911140, AA911319,
une or more polymucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 143 of SEQ 10 NO:247, bit as miteger of 15 to 1449, where both a and be correspond to the positions of mucleotide residues shown in SEQ 1D NO:247, and where b is greater than or equal to a + 14.  828937 Preferably excluded from the present invention are or more polymucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1470 of SEQ 1D NO:248, b is an integer of 15 to 1494, where both a and b correspond to the positions of mucleotide residues shown in SEQ 1D NO:248, and where b is greater than or equal to a + 14.  14. 14. 14. 14. 14. 14. 14. 14. 14. 14.			AA989380. AI088862. N85247
nucleotide sequence described by the general formula of a-b. where as any integer between 1 to 1435 of SEQ ID NO.247, b is an integer of 15 to 1449, where both and be correspond to the positions of nucleotide residues shown in SEQ ID NO.247, and where b is greater than or equal to a + 14.  828937 Preferably excluded from the present invention are or more polynacleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 in 1470 of SEQ ID NO.248, b is an integer of 15 to 1434, where both and be correspond to the positions of nucleotide residues shown in SEQ ID NO.248, and where b is greater than or equal to a + 14.  14.  15. 14.  16. 15. 14.  17. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15	828935	Preferably excluded from the present invention are	
formula of a-b. where a is any integer between 1 to 143 of SEQ ID NO:247, b is an integer of 15 to 1449, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:247, and where b is greater than or equal to a + 14.  828937 Preferably excluded from the present invention are not or nor polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1470 of SEQ ID NO:248, b is an integer of 15 to 1484, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:248, and where b is greater than or equal to a + 14.  14.  15. The second of the positions of nucleotide residues shown in SEQ ID NO:248, and where b is greater than or equal to a + 14.  16. The second of the positions of nucleotide residues shown in SEQ ID NO:248, and where b is greater than or equal to a + 14.  16. The second of the positions of nucleotide residues shown in SEQ ID NO:248, and where b is greater than or equal to a + 14.  17. The second of the positions of nucleotide residues shown in SEQ ID NO:248, and where b is greater than or equal to a + 14.  18. The second of the positions of nucleotide residues shown in SEQ ID NO:248, and where b is greater than or equal to a + 14.  18. The second of the positions of the positions of nucleotide residues shown in SEQ ID No:248, and where b is greater than or equal to a + 14.  18. The second of the positions of the positions of nucleotide residues shown in SEQ ID No:248, and second of the positions of nucleotide residues shown in SEQ ID No:248, and second of the positions of nucleotide residues shown in SEQ ID No:248, and second of nucleotide residues shown in SEQ ID No:248, and second of nucleotide residues shown in SEQ ID No:248, and second of nucleotide residues shown in SEQ ID No:248, and second of nucleotide residues shown in SEQ ID No:248, and second of nucleotide residues shown in SEQ ID No:248, and second of nucleotide residues shown in SEQ ID No:248, and second of nucleoti		one or more polynucleotides comprising a	
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1449, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.247, and where b is greater than or equal to a +   14.     828937			
positions of nucleotide residues shown in SEO ID NO.247, and where b is greater than or equal to a + 14.  828937 Preferably excluded from the present invention are nucleotide residues omprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1470 of SEO ID NO.248, b, is an integer of 15 to 1484, where both a and b correspond to the positions of nucleotide residues shown in SEO ID NO.248, and where b is greater than or equal to a + 14.  14. Bright Section 14. Bright Section 15. To 14. Bright Section 15. Bright Section 16. Brigh			
NO.247, and where b is greater than or equal to a + 14.  828937 Preferably excluded from the present invention are nor more polynacionides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1470 of SEO ID NO.248, b is an integer of 15 to 1484, where both and be correspond to the positions of nucleotide residues shown in SEO ID NO.248, and where b is greater than or equal to a + 14.  14.  14.  15.  16.  17.  18.  18.  18.  18.  18.  18.  18	1		
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Incleotide sequence described by the general formula of a b. where a is any integer between 1 in 1470 of \$10 D NO.248, b is an integer of 15 to 1484, where both and be correspond to the positions of nucleotide residues shown in \$EQ ID NO.248, and where b is greater than or equal to a + 1460.64, 1460.64, 1460.64, 1460.65, 1460.03, 1460.64, 1460.64, 1460.65, 1460.03, 1460.64, 1460.65, 1460.03, 1460.64, 1460.64, 1460.65, 1460.03, 1460.64, 1460.64, 1460.65, 1460.03, 1460.64, 1460	828937		
formula of a-b. where a is any integer between 1 to 1470 of SE(0 ID NO-248, b) and not prespond to the positions of mulcetide residues shown in SE(0 ID NO-248, and where b is greater than or equal to a 14.  14.  NO-248, and where b is greater than or equal to a 14.  14.  NO-248, and where b is greater than or equal to a 14.  14.  NO-248, and where b is greater than or equal to a 14.  NO-248, a			
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1484, where both a and b correspond to the positions of macleotide residues shown in SEQ 10   180064, 180965, 190038, 184917   190064, 180965, 190038, 184917   190064, 180965, 190038, 184917   190065, 190038, 184917   190065, 190038, 184917   190065, 180065, 190038, 184917   190065, 184918, 184917   190065, 184918,			
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14. N21625, N22334, N28826, N2866 N31950, N33092, N3337, N2959) N36772, N44708, N99799, N6377. N64419, N75050, N73583, N97598, N6377. N64419, N75050, N73583, N9366 W6846, W07226, W292144, W32172, W33376, W38996, W39688, W35882, W58823, W58883, W55882, W58545, W58627, W68228, W78900, W30966, W37464, N91505, AA076436, AA062585, AA112249, AA127557, AA127353, AA171942, AA127457, AA55337, AA27368, AA37474, AA55337, AA27368, AA534474, AA55337, AA37690, AA505277, AA553285, AA376544, AA535682, AA653925, AA3766748, AA878604, AA878644, AA887864, AA976740, AA978526, AA978586, AA976748, AA978586, AA978584, AA976749, AA978586, AA978584, AA976749, AA978586, AA978584, AA976749, AA976836, AA978584, AA976749, AA976836, AA978684, AA976749, AA976836, AA978684, AA976749, AA976886, AA976884, AA976749, AA976886, AA976884, AA976749, AA976886, AA976886, AA97688640, AA976886, AA976886, AA97688640, AA976886, AA978884, AA976886, AA976886, AA978884, AA976886, AA976886, AA978884, AA976886, AA976886, AA978884, AA976886, AA976886, AA978884, AA976886, AA976886, AA978884, AA976886, AA976886, AA978884, AA976886, AA976886, AA978886, AA978884, AA976886, AA976886, AA978886, AA978886, AA976886, AA976886, AA978886, AA976886,	1		
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N78219, N78798, N92686, N9306 W06846, W07226, W32114, W32172, W35376, W38996. W39688, W45982, W38996. W596882, W5882, W5882, W58883, W55882, W5882, W5890, W8096, W87444, N9150, AA026436, AA026385, AA112389, AA127457 AA026385, AA112389, AA127457 AA50337, AA273900, AA50747 AA50337, AA273900, AA50747 AA50337, AA273900, AA50747 AA50337, AA273900, AA50747 AA50337, AA376744, AA515690, AA522484, AA4736744, AA515690, AA522484, AA576744, AA58682, AA6757916, AA676856, AA776748, AA677644, AA887864 AA975820, AA9718326, AA9718341 AA9767820, AA9718326, AA9718341 AA9767820, AA976836, AA9718826, AA976881,			
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A.062585, A.112289, A.127552 A.127553, A.171922, A.171924 A.2724492, A.273930, A.4505271 A.4505337, A.4527368, A.4531401 A.4505337, A.4527368, A.4531401 A.4505253, A.4534544, A.4535699 A.4505253, A.4537637, A.4576399 A.4579716, A.4576399, A.4576399 A.4579716, A.4568556, A.4687556 A.47316749, A.4877644, A.48767649 A.4976394, A.4971036, A.4978644 A.4976349, A.4971036, A.4978644 A.4976240, A.49703636, A.4981834 A.4976240, A.49703636, A.4981834 A.4976240, A.49703636, A.4981834 A.4976240, A.49703636, A.4981834 A.4976240, A.49703636, A.4981834 A.4976240, A.49703636, A.4981834 A.4976240, A.49703636, A.4981834 A.4976240, A.49703636, A.4981834 A.4976240, A.49703636, A.4981834 A.4976240, A.49703636, A.4981834 A.4976240, A.49703636, A.4981834 A.4976240, A.49703686, A.4981844 A.4976240, A.49703686, A.4981844 A.4976240, A.49703686, A.4981844 A.4976240, A.49703686, A.4981844 A.4976240, A.49818486, A.4981844 A.4976240, A.49818486, A.4981844 A.4976240, A.49818486, A.4981844 A.4976240, A.49818486, A.4981			W68228, W78990, W80596,
AA127553, AA171942, AA17244 AA224492, AA27390, AA505273 AA505337, AA573768, AA53140, AA532851, AA54544, AA53569 AA532848, AA58769, AA58828 AA63902, AA576357, AA576858, AA63902, AA576357, AA576858, AA736748, AA877644, AA855566 AA736748, AA977636, AA938641 AA975290, AA976836, AA938641 AA975290, AA976836, AA938641 AA976290, AA976836, AA97884134 AA976290, AA976836, AA97884134 AA976890, AA97688640, AA07688640, AA0788640, AA0788640, AA0788640, AA0788640, AA0788640, AA0788640, AA0788640, AA0788640, AA0788640, A			W87464, N91505, AA026436.
AA224492, AA279300, AA505271 AA505327, AA527368, AA53621 AA532853, AA534544, AA535691 AA532853, AA534544, AA535691 AA532853, AA534544, AA535691 AA565825, AA763575, AA576357, AA576357 AA736748, AA877644, AA6785576 AA917890, AA971036, AA97854 AA975394, AA971036, AA97834 AA976240, AA970363, AA948135 AA976240, AA976363, AA98133 A1086410, W01797, N86155, N86407, AA026382, AA092135, AA093221, AA094134  828940  Preferably excluded from the present invention are Tf61139, H60608, H66215, H86155, H86155	1		AA062585, AA112289, AA127552,
A.505337, A.527368, A.53140, A.532633, A.534544, A.53569 A.532848, A.A53769, A.56822 A.635925, A.A57637, A.576858 A.579716, A.A568556, A.687556 A.736748, A.A877644, A.A885766 A.736748, A.A977856, A.493864 A.746748, A.A976836, A.497684 A.746748, A.A976836, A.7467864 A.746748, A.A976836, A.7467864 A.746748, A.A976836, A.7467864 A.746748, A.A976836, A.7467864 A.746748, A.7467864, A.746			AA127553, AA171942, AA172148,
A A532853, AA534344, AA53696 AA582848, AA587609, AA56882 AA635925, AA576537, AA57689 AA579716, AA56885, AA667555 AA736748, AA77644, AA885764 AA973694, AA971036, AA97834 AA976240, AA971036, AA98135 AL086410, A09768316, AA98135 AL086410, A09768316, AA98135 AL086410, AA076832, AA092135, N86407, AA026382, AA092135, AA094134  828940  Preferably excluded from the present invention are Tf61139, H60680, H66215, H86155, H86156			AA224492, AA279390, AA505278,
A.58248, A.4587609, A.56852  A.635925, A.A576357, A.576582  A.A57916, A.A576358, A.587639  A.579716, A.A568556, A.687557  A.736748, A.A77636, A.A97636  A.A976394, A.A971830, A.A978381  A.A976324, A.A976381, A.A978381  A.A976324, A.A976381, A.A983341  A.A976340, A.A976381, A.A9834134  A.A976340, A.A976381, A.A991381  A.A976340, A.A976381, A.A991381  B.S28940  Preferably excluded from the present invention are Tf51139, H60608, H66215, H86155			AA505337, AA527368, AA531405,
AA63925, AA57637, AA57689 AA579716, AA658586, AA687556 AA76718, AA877640, AA885766 AA917890, AA918826, AA93844 AA976240, AA971036, AA948138 AL086410, W01797, N86155, N86407, AA026382, AA092135, AA093922, AA094138 828940  Preferably excluded from the present invention are Tf91139, H60680, H66215, H86154			AA532853, AA534544, AA535699,
AA597916, AA568856, AA68756 AA736748, AA877644, AA885766 AA917890, AA918826, AA98847 AA95394, AA971036, AA99834 AA976240, AA976836, AA948136 A1086410, W01797, N86155, N86407, AA026382, AA092135, AA093922, AA094184			AA582848, AA587609, AA568827,
AA736748, AA877644, AA885766 AA91826, AA93864 AA97890, AA91826, AA93864 AA976240, AA976834 AA976240, AA976836, AA94813 AL086410, W01797, N86155, N86407, AA026382, AA092135, AA092184 828940 Preferably excluded from the present invention are T61139, H66080, H66215, H86154	1		AA635925, AA576357, AA576891,
A.9.17890, A.9.18826, A.9.28647 A.9475394, A.971036, A.971834 A.9775240, A.9076335, A.948135 A.1086410, W01797, N86155, N86407, A.026382, A.0092135, A.0093922, A.0994184 828940 Preferably excluded from the present invention are Tf61139, H60608, H66215, H86154	1		
AA953594, AA971036, AA97384 AA976240, AA976836, AA948135 AI086410, W01797, N86155, N86407, AA026382, AA092135, AA093922, AA094184 828940 Preferably excluded from the present invention are T61139, H66080, H66215, H86154	!		
AA976240, AA976336, AA948135 Al086410, W01797, N86155, N86407, AA026382, AA092135, AA093922, AA094184  828940 Preferably excluded from the present invention are Tf61139, H60608, H66215, H86154	1		
A1086410, W01797, N86155, N86407, AA026382, AA092135, AA094184 828940 Preferably excluded from the present invention are T61139, H66088, H66215, H86154			
828940 Preferably excluded from the present invention are T61139, H60808, H66215, H86154	1		
AA093922. AA094184  828940 Preferably excluded from the present invention are T61139, H60808, H66215, H86154			
828940 Preferably excluded from the present invention are T61139, H60808, H66215, H86154			
	929040	Brafarahly avaluded from the present invention are	
	040740	one or more polynucleotides comprising a	H86598, N66951, AA045564.
	1		AA053520, AA054053, AA054010,
	1		AA055556, AA055592, AA055887.
	i		AA085899, AA088546, AA100472,
			AA102305, AA100774, AA115726,
			AA115790, AA130430, AA130456,
			AA134504, AA130756, AA132265,

	14.	AA134988, AA135921, AA143560.
		AA143592. AA146693. AA146644.
		AA146790, AA152341, AA149726.
		AA149780, AA152003, AA157705.
		AA157715, AA157718, AA157719.
		AA157730, AA180379, AA226737
		AA227302, AA527374, C05254
828942	Prefcrably excluded from the present invention are	H51878
028942		H31676
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	560 of SEQ ID NO:250, b is an integer of 15 to	
	574, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:250.	
	and where b is greater than or equal to a + 14.	
828943	Preferably excluded from the present invention are	
020, 15	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1030 of SEQ ID NO:251, b is an integer of 15 to	
	1044, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:251, and where b is greater than or equal to a +	
	14.	
828946	Preferably excluded from the present invention are	H49140, H50139, N91808.
	one or more polynucleotides comprising a	W17361, W23877, W25195,
	nucleotide sequence described by the general	W31242, AA116089, AA116090,
	formula of a-b, where a is any integer between 1 to	AA150544, AA150853, AA417973.
	1015 of SEO ID NO:252, b is an integer of 15 to	AA418133, AA279993, AA280052,
	1029, where both a and b correspond to the	AA583751, AA587199, AA618421,
	positions of nucleotide residues shown in SEQ ID	AA814427, AA830028, AA916097.
	NO:252, and where b is greater than or equal to a +	AA961686, AA974254, AA987758,
	14.	A1083878, AI085516, N94820,
		N95456
828947	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	plucieotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	formula of a-b, where a is any integer between 1 to 461 of SEQ ID NO:253, b is an integer of 15 to	
	formula of a-b, where a is any integer between 1 to 461 of SEQ ID NO:253, b is an integer of 15 to 475, where both a and b correspond to the positions	
	formula of a-b, where a is any integer between 1 to 461 of SEQ ID NO:253, b is an integer of 15 to 475, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:253,	
929054	formula of a-b, where a is any integer between 1 to 461 of SEQ ID NO:253, b is an integer of 15 to 475, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:253, and where b is greater than or equal to a + 14.	T00047 T00202 H22004 N22224
828956	formula of a-b, where a is any integer between 1 to 461 of SEQ ID NO:233, b is an integer of 15 to 475, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:253, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are	T80047, T80393, H22804, N33236,
828956	formula of a-b, where a is any integer between 1 to 461 of SEQ 10 NO:253, b is an image of 151 of 475, where both a and b correspond to the positions of nucleotide residues shown in SEQ 10 NO:253, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a	W55892, AA043830, AA062632,
828956	formula of a-b, where a is any integer between 1 to 461 of SEQ ID NO:253, b is an integer of 15 to 475, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:253, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general	W55892, AA043830, AA062632, AA069280, AA078770, AA082403,
828956	formula of a-b, where a is any integer between 1 to 461 of SEQ ID NO:25, b is an integer of 15 to 475, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:253, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to	W55892, AA043830, AA062632, AA069280, AA078770, AA082403, AA101062, AA459984, AA460077,
828956	formula of a-b, where a is any integer between 1 to 461 of SEQ ID NO:253, b is an integer of 15 to 475, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:253, and where b is greater than or equal to a +1 d. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1710 or SEQ ID NO:254, b is an integer of 15 to	W55892, AA043830, AA062632, AA069280, AA078770, AA082403, AA101062, AA459984, AA460077, AA501353, AA535081, AA588749,
828956	formula of a-b, where a is any integer between 1 to 461 of SEQ ID NO:253, b is an integer of 15 to 475, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:253, and where b is greater than or equal to a +1 d. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1710 or SEQ ID NO:254, b is an integer of 15 to	W55892, AA043830, AA062632, AA069280, AA078770, AA082403, AA101062, AA459984, AA460077, AA501353, AA535081, AA588749,
828956	formula of a-b, where a is any integer between 1 to 461 of SEQ ID NO:253, b is an integer of 15 to 475, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:253, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1710 or SEQ ID NO:254, b is an integer of 15 to 1724, where both a and b correspond to the	W55892, AA043830, AA062632, AA069280, AA078770, AA082403, AA101062, AA459984, AA460077, AA501353, AA535081, AA588749, AA577376, AA814781, AA836428,
828956	formula of a-b, where a is any integer between 1 to 461 of SEQ ID NO:253, b is an integer of 15 to 475, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:253, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1710 of SEQ ID NO:254, b is an integer of 15 to 1724, where both a and b correspond to the positions of mulcelotide residues shown in SEQ ID No:254, b is an integer of 15 to 1724, where both a and b correspond to the	W55892, AA043830, AA062632, AA069280, AA078770, AA082403, AA101062, AA459984, AA460077, AA501353, AA535081, AA588749,
828956	formula of a-b, where a is any integer between 1 to 461 of SEQ ID NO:253, b is an integer of 15 to 475, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:253, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of 2-b, where a is any integer between 1 to 1710 or SEQ ID NO:254, b is an integer of 15 to 1724, where both a and b correspond to the positions of mucleotide residues shown in SEQ ID NO:254, and where b is greater than or equal to a +	W55892, AA043830, AA062632, AA069280, AA078770, AA082403, AA101062, AA459984, AA460077, AA501353, AA535081, AA588749, AA577376, AA814781, AA836428,
	formula of a-b, where a is any integer between 1 to 461 of SEQ ID NO:253, b is an integer of 15 to 475, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:253, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1710 or SEQ ID NO:254, b is an integer of 15 to 1724, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:254, and where b is greater than or equal to a + 14.	W55892, AA043830, AA062632, AA069280, AA078770, AA082403, AA101062, AA459984, AA460077, AA501353, AA535081, AA588749, AA577376, AA814781, AA836428,
828956 828958	formula of a-b, where a is any integer between 1 to 461 of SEQ ID NO:253, b is an integer of 15 to 475, where both a and b correspond to the positions of mucleotide residues shown in SEQ ID NO:253, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polymucleotides comprising a nucleotide sequence described by the general formula of 2-b, where a 1 san pittinger between 1 to 1710 or SEQ ID NO:254, b is an integer of 15 to 1724, where both a and b correspond to the positions of mucleotide residues shown in SEQ ID NO:254, and where b is greater than or equal to a + 14.  Preferably excluded from the present invention are	W55892, AA043830, AA062632, AA069280, AA078770, AA082403, AA101062, AA459984, AA460077, AA501353, AA535081, AA588749, AA577376, AA814781, AA836428,
	formula of a-b, where a is any integer between 1 to 461 of SEQ ID NO:253, b is an integer of 15 to 475, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:253, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1710 or SEQ ID NO:254, b is an integer of 15 to 1724, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:254, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a	W55892, AA043830, AA062632, AA069280, AA078770, AA082403, AA101062, AA459984, AA460077, AA501353, AA535081, AA588749, AA577376, AA814781, AA836428,
	formula of a-b, where a is any integer between 1 to 461 of SEQ 10 NO-253, b is an integer of 15 to 475, where both a and b correspond to the positions of nucleotide residues shown in SEQ 10 NO-253, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1710 or SEQ 10 NO-254, b is an integer of 15 to 1724, where both a and b correspond to the positions of nucleotide residues shown in SEQ 10 NO-254, and where is is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general	W55892, AA043830, AA062632, AA069280, AA078770, AA082403, AA101062, AA459984, AA460077, AA501353, AA535081, AA588749, AA577376, AA814781, AA836428,
	formula of a-b, where a is any integer between 1 to 461 of SEQ ID NO:253, b is an integer of 15 to 475, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:253, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1710 or SEQ ID NO:254, b is an integer of 15 to 1724, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:254, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to	W55892, AA043830, AA062632, AA069280, AA078770, AA082403, AA101062, AA459984, AA460077, AA501353, AA535081, AA588749, AA577376, AA814781, AA836428,
	formula of a-b, where a is any integer between 1 to 461 of SEQ 10 NO-253, b is an integer of 15 to 475, where both a and b correspond to the positions of nucleotide residues shown in SEQ 10 NO-253, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1710 or SEQ 10 NO-254, b is an integer of 15 to 1724, where both a and b correspond to the positions of nucleotide residues shown in SEQ 10 NO-254, and where is is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general	W55892, AA043830, AA062632, AA069280, AA078770, AA082403, AA101062, AA459984, AA460077, AA501353, AA535081, AA588749, AA577376, AA814781, AA836428,

	of nucleotide residues shown in SEQ 1D NO:255.	
_	and where b is greater than or equal to a + 14.	
828965	Prefenably excluded from the present invention are non or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 876 of SEO ID NO.256, b is an integer of 15 to 890, where both a and be correspond to the positions of nucleotide residues shown in SEQ ID NO.256, and where b is greater than or equal to a + 14.	AA428256, AA522732, AA531204, AA588687, AA622529, AA631698, AA687351, AA736613, AA736615, AA743076, AA805965, AA825789,
		AA873396, AA934548, AA984002
828969	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1145 of SEQ ID NO:257. b is an integer of 15 to 1159, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:257, and where b is greater than or equal to a + 14.	R34277, R35477, R40127, R40127, R40127, R56401, R63536, R65387, R6536, R65387, R65401, R65363, R65418, R65428, R66419, R65428, R66429, R72408, R72444, R75908, R7644, R75908, R7641, R67416, R6424, R6
828971	Description of the state of the	C14031, AA081397, C13440
	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 741 of SEQ ID NO:258, b is an integer of 15 to 755, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:258, and where b is greater than or equal to a + 14.	
828973	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 700 of SEQ ID NO.259, b is an integer of 15 to 714, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.259, and where b is greater than or equal to a + 14.	
828980	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence deserribed by the general formula of a-b. where a is any integer between 1 for 11 of SEQ 10 No.260. b) an integer of 15 to 525, where both a and b correspond to the positions of nucleotide residues shown in SEQ 10 NO.260. when the sign and where b is greater than or equal to a + 14.	AA171806. AA223318

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828984	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 2986 of SEQ ID NO.261. b is an integer of 15 to 3000, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.261, and where b is greater than or equal to a + 14.	T80804, T81207, R66564, R79533, H10212, H10266, N47700, N47701, N47714, N47715, A007170, N47701, N47714, N47715, W92453, W92454, AA0847175, AA07175, AA073046, AA088196, AA088496, AA088496, AA088496, AA088496, AA103824, AA133823, AA134870, AA153626, AA15920, AA173150, AA173277, AA18720, AA173277, AA28171, AA285716, AA28376, AA28376, AA28376, AA28076, AA3864428, AA872063, AA928645, AA940598, AA872063, AA928645, AA940587, AA872063
828985	Preferably excluded from the present invention are one or more polyuncleotides comparison mucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 952 of SEQ ID NO:262, b is an integer of 15 to 966, where both a and b correspond to the positions of mucleotide residues shown in SEQ ID NO:262, and where b is greater than or couls to a + 14.	
828988	Preferably excluded from the present invention are one or more polymucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2724 of SEQ ID NO.263, b is an integer of 15 to 2738, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.263, and where b is greater than or equal to a + 14.	T73414, R12106, T66628, T66628, T78284, R16941, R16042, R36860, R37936, R61426, R63310, H40110 H40114, N25567, N30486, N34164865, N32758, N57579, R93486, N34164865, W31769, W32476, W32662, AA029841, AA029545, AA215402, AA278627, AA282001, AA483843, AA576431 AA569932, AA749063, AA76905, AA780624, AA78905, AA802799, AA830249 N83750, A1097104
828993	Freferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1560 of SEQ ID NO.224, b is an integer of 15 to 1520, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.264, and where b is greater than or equal to a + 14.	1107104
828995	Preferably excluded from the present invention are one or more polynucleotides comprising nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1554 of SEQ ID NO.255. b is an integer of 15 to 1568, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.255, and where b is greater than or equal to a + 14.	

	829000	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general	T84984, H62305, N94075
		formula of a-b, where a is any integer between I to	İ
		531 of SEQ ID NO:266, b is an integer of 15 to	
-		545, where both a and b correspond to the positions	
- 1		of nucleotide residues shown in SEQ ID NO:266.	l .
J		and where b is greater than or equal to a + 14.	
	829005	Preferably excluded from the present invention are	T81847, R31803, R63658, H80178,
		one or more polynucleotides comprising a	AA086064. AA730231, AA805602,
-		nucleotide sequence described by the general	N84214. AA091994
ı		formula of a-b, where a is any integer between 1 to 748 of SEQ ID NO:267, b is an integer of 15 to	
- 1		762, where both a and b correspond to the positions	
1		of nucleotide residues shown in SEQ ID NO:267,	
		and where b is greater than or equal to a + 14.	
-	829009	Preferably excluded from the present invention are	
		one or more polynucleotides comprising a	
		nucleotide sequence described by the general	
		formula of a-b, where a is any integer between 1 to	
-		1419 of SEQ ID NO:268, b is an integer of 15 to	
- 1		1433, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID	
- 1		NO:268, and where b is greater than or equal to a +	
ı		14.	
ı	829010	Preferably excluded from the present invention are	
-		one or more polynucleotides comprising a	
-		nucleotide sequence described by the general	
-		formula of a-b, where a is any integer between 1 to	
-		2264 of SEQ ID NO:269, b is an integer of 15 to	
-		2278, where both a and b correspond to the	
- 1		positions of nucleotide residues shown in SEQ ID NO:269, and where b is greater than or equal to a +	
- 1		14.	
ı	829012	Preferably excluded from the present invention are	T46984, T46985, T60315, T60340,
-		one or more polynucleotides comprising a	T91262, T82866, T85699, R18936.
-		nucleotide sequence described by the general	R22449, R22501, R44051, R44051,
1			R62350, R62351, R62967, R63021,
١			R67538, R67539, H00265, H00266,
1			H05754, H05861, H17661, H17778,
1			H37895, R84704, R85663, R85705, R92774, H71754, H86241, H86596,
-			N77995, N94481, W23930,
-			W33005, W42716, W42804,
-			W42856, W42911, W48687,
1		·	W48688, W51894, W60144,
1			AA013165, AA013166, AA016027,
1			AA016116, AA019160, AA019173,
П			AA019737, AA019781, AA019874,
1			AA019940, AA020855, AA021014,
			AA039946. AA039812, AA044966. AA059316, AA059332, AA062810.
			AA069688. AA074166, AA074690,
			AA074819, AA079227, AA086267,
			AA085941. AA101899, AA111855.
			AA112207, AA112317, AA113083,
L			AA113110. AA112379, AA128454.

		AA129184, AA134373, AA134374,
İ		AA147440, AA147441, AA147468,
		AA147469, AA152007, AA182029,
		AA188388, AA193685, AA514744,
		AA525480, AA553895, AA559119,
	1	AA580724. AA595036, AA600916,
		AA601895, AA602350, AA631450,
		AA633022, AA640333, AA580604,
1		AA715813. AA806865, AA808711,
		AA811858, AA833843, AA862552,
		AA873179, AA878958, AA887089,
Į.		AA918330, AA922879, AA937320,
		AA977779, AA987809, AA991856,
		AA999930, A1081179, W28427,
		N86448, AA640960, AA641152
829013	Preferably excluded from the present invention are	R12986, R32825, R32839, R32927,
	one or more polynucleotides comprising a	R32942, R40183, R52946, R53730,
	nucleotide sequence described by the general	R40183, R66041, H98989, N52010,
İ	formula of a-b, where a is any integer between 1 to	N54624, N66635, AA046243,
	1604 of SEQ ID NO:271, b is an integer of 15 to	AA149949, AA253362, AA253485,
	1618, where both a and b correspond to the	AA258773, AA257971, AA262281,
	positions of nucleotide residues shown in SEO ID	AA422167, AA262911, AA513150,
	NO:271, and where b is greater than or equal to a +	AA687117, AA687257, AA747442,
	14.	AA748820, AA749108, AA767245,
1		AA806305, AA811958, AA903407,
		AA937560, AA938330, AA976840,
		AA094074
829019	Preferably excluded from the present invention are	
1	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	456 of SEQ ID NO:272, b is an integer of 15 to	
	470, where both a and b correspond to the positions	
í	of nucleotide residues shown in SEQ 1D NO:272,	
	and where b is greater than or equal to a + 14.	
829020	Preferably excluded from the present invention are	AA136693, AA136791, AA233217,
	one or more polynucleotides comprising a	AA419607
	nucleotide sequence described by the general	
l	formula of a-b, where a is any integer between 1 to	
	969 of SEQ ID NO:273, b is an integer of 15 to	
	983, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ 1D NO:273,	
	and where b is greater than or equal to a + 14.	
829021	Preferably excluded from the present invention are	T94357, T94712, R12024, R12980,
	one or more polynucleotides comprising a	R37092, R40178, R40178, H06066,
	nucleotide sequence described by the general	H13404, N70651, W06945.
		N90742, AA071520, AA082342,
	1992 of SEQ ID NO:274, b is an integer of 15 to	AA086292, AA111847, AA508760,
	2006, where both a and b correspond to the	AA513083, AA513134, AA975983,
	positions of nucleotide residues shown in SEQ ID	AA987297, N86943
	NO:274, and where b is greater than or equal to a +	
22200	14.	
829026		R46780, R56425, H14131, H14048.
		H19990, H44884, W73060,
	nucleotide sequence described by the general	W76648, AA258220. AA732283,
		AA732519, AA748619. AA768036.
	1362 of SEQ ID NO:275, b is an integer of 15 to	AA830813

1	1376, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:275, and where b is greater than or equal to a +	
	14	
829030	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	1
	2580 of SEQ 1D NO:276, b is an integer of 15 to	İ
l	2594, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:276, and where b is greater than or equal to a +	
	14.	
829035	Preferably excluded from the present invention are	İ
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between I to	
	665 of SEQ ID NO:277, b is an integer of 15 to	
1	679, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:277,	
	and where b is greater than or equal to a + 14.	ļ
829041	Preferably excluded from the present invention are	T64828. R13411, R40922, H17358,
1	one or more polynucleotides comprising a	AA829407, AA991316
1	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	i
	1464 of SEQ ID NO:278, b is an integer of 15 to	
	1478, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:278, and where b is greater than or equal to a +	
	14.	
829045	Preferably excluded from the present invention are	R94934, R95018, R96941, R96998,
1	one or more polynucleotides comprising a	N62469, N79188, AA056180,
	nucleotide sequence described by the general	AA079122, AA079223, AA190398.
		AA190542, AA279989, AA280050,
	2307 of SEQ ID NO:279, b is an integer of 15 to 2321, where both a and b correspond to the	AA563719, AA563967, AA621823,
	positions of nucleotide residues shown in SEQ ID	AA639374, AA743441, AA809943,
	NO:279, and where b is greater than or equal to a +	AA903777, AA991450, AA091152
	14.	
829048	Preferably excluded from the present invention are	
029040	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
1	1679 of SEQ ID NO:280, b is an integer of 15 to	
	1693, where both a and b correspond to the	
1	positions of nucleotide residues shown in SEQ ID	
	NO:280, and where b is greater than or equal to a +	
	14.	
829051	Preferably excluded from the present invention are	
629051	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	l l
İ	formula of a-b, where a is any integer between 1 to	
1	244 of SEQ ID NO:281, b is an integer of 15 to	
	258, where both a and b correspond to the positions	
l	of nucleotide residues shown in SEO ID NO:281.	
	and where b is greater than or equal to a + 14.	
829052	Proferably excluded from the present invention are	T54000 T54102 P42595 P42595
	a resonably excluded from the present invention are	1 JAVJJ. 134194, R42363, R42383,

1	one or more polynucleotides comprising a	H30486. R83722. N24879, N34365.
	nucleotide sequence described by the general	N36398. W80812, W80905.
	formula of a-b. where a is any integer between 1 to	AA040726, AA040725, AA069816.
	1750 of SEQ ID NO:282, b is an integer of 15 to	AA099148, AA099246, AA130358,
	1764, where both a and b correspond to the	AA131274. AA143111, AA150578,
	positions of nucleotide residues shown in SEO ID	AA553644. H89452, AA570403.
	NO:282, and where b is greater than or equal to a +	AA985591, A1076032, AA092873
	14.	140000000000000000000000000000000000000
829057	Preferably excluded from the present invention are	R17092
027037	one or more polynucleotides comprising a	1
	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
	785 of SEQ ID NO.283, b is an integer of 15 to	1
1	799, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:283,	!
829058	and where b is greater than or equal to a + 14.	
829058	Preferably excluded from the present invention are	1
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	1
	1475 of SEQ ID NO:284, b is an integer of 15 to	
	1489, where both a and b correspond to the	i
	positions of nucleotide residues shown in SEQ ID	
	NO:284, and where b is greater than or equal to a +	
	14.	
829059	Preferably excluded from the present invention are	T99023. R54176. H73053. H72832.
1	one or more polynucleotides comprising a	H73054, H80706, AA988806
i	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	688 of SEQ ID NO:285, b is an integer of 15 to	
i	702, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:285,	
	and where b is greater than or equal to a + 14.	1
829061	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1161 of SEO ID NO:286, b is an integer of 15 to	
	1175, where both a and b correspond to the	
1	positions of nucleotide residues shown in SEQ ID	
1	NO:286, and where b is greater than or equal to a +	
i .	14.	
829062	Preferably excluded from the present invention are	
1	one or more polynucleotides comprising a	
1	nuclcotide sequence described by the general	
	formula of a-b, where a is any integer between I to	
	2859 of SEQ ID NO:287, b is an integer of 15 to	
	2873, where both a and b correspond to the	
I	positions of nucleotide residues shown in SEQ ID	
1	NO:287, and where b is greater than or equal to a +	
	14.	
829063		T56853, R13426, R40938, R40938.
02,003		R56447, H64343, W94129.
1	nucleotide sequence described by the general	W94024, W95653, W95654,
1		AA001812, AA158586, AA158585,
		AA179917, AA463947, AA464082, AA421875, AA430503, AA430622,
	\$104, where both a and b correspond to the	MATERIA / D. AA430003, AA430622,

	positions of nucleotide residues shown in SEQ ID NO.288, and where b is greater than or equal to a + 14.	AA228990. AA506167. AA528459. AA551350. AA564494, AA601544. AA604335. AA622270. AA747745. AA760947. AA827325. AA888125. AA910238
829064	Preferably, excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1237 of SEQ ID NO.289, b is an integer of 15 to 1251, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.289, and where b is greater than or equal to a + 14.	
829066	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1577 of SEQ ID NO.290. b is an integer of 15 to 1591, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.290, and where b is greater than or equal to a + 14.	
829068	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2372 of SEQ ID NO.291, b is an integer of 15 to 2386, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.291, and where b is greater than or equal to a + 14.	
829069	Preferably excluded from the present invention are one or more polynucleotides comprised in nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 980 of SEQ ID NO:292, b is an integer of 15 to 983, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:292, and where b is greater than or equal to a ± 14.	AA056484. AA056650, AA742863
829074	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 2641 of SEQ 10 No.293, b is an integer of 15 to 2655, where both a and b correspond to the positions of meleotide residues shown in SEQ 1D NO.293, and where b is greater than or equal to a + 14.	R21643, R21965, R23012, R31285, R81896, R32700, R32701, R34083, R62210, R64591, R68873, R73888, R73975, R74184, R74270, R76839, R77200, R77200, R78052, H03147, H03956, H15807, H16106, H39711, H39732, H42156, R68951, N41769, W87673, AA007438, AA007439, AA013075, AA009593, AA156625, AA195656, AA195769, AA236849, AA237048, AA226078, AA526002, AA7670256, AA750252, AA766062, AA7670256, AA769581, AA827847, AA831416, AA911414, AA938690
829077		R11694, AA031610. AA056352, AA099809, AA190527

	formula of a-b, where a is any integer between 1 to	
1	1724 of SEQ ID NO:294. b is an integer of 15 to	
	1738, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:294, and where b is greater than or equal to a + 14.	
829078	Preferably excluded from the present invention are	
ı	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	i
	formula of a-b, where a is any integer between 1 to	
ŀ	1006 of SEQ ID NO:295, b is an integer of 15 to 1020, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:295, and where b is greater than or equal to a +	
	14.	
829079	Prefcrably excluded from the present invention are	AA613454
	one or more polynucleotides comprising a	
	nuclcotide sequence described by the general	Į.
	formula of a-b, where a is any integer between 1 to	
	670 of SEQ ID NO:296, b is an integer of 15 to	
	684, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:296,	
	and where b is greater than or equal to a + 14.	
829085	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to 1824 of SEO ID NO:297, b is an integer of 15 to	
	1838, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:297, and where b is greater than or equal to a +	
	14	
829093	Preferably excluded from the present invention are	Г86751, N67573, AA084170.
	one or more polynucleotides comprising a	AA482701, AA513177, AA715379
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
	1621 of SEQ ID NO:298, b is an integer of 15 to	
	1635, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:298, and where b is greater than or equal to a +	
222222	14.	
829099	Preferably excluded from the present invention are	AA235899, AA524874, AA588559,
	one or more polynucleotides comprising a nucleotide sequence described by the general	AA568363, C18296
	formula of a-b, where a is any integer between 1 to	
	854 of SEQ ID NO:299, b is an integer of 15 to	
	868, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:299,	
	and where b is greater than or equal to a + 14.	
829101		N28457
0.007.101	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	533 of SEQ ID NO:300, b is an integer of 15 to	
	547, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:300,	
	and where b is greater than or equal to a + 14.	

829102		N24654. N35441. N72250.
	one or more polynucleotides comprising a	W00539. W44692, AA101155.
	nucleotide sequence described by the general	AA491668, A1054009, A1054199.
		W38644
	851 of SEQ ID NO:301, b is an integer of 15 to	
	865, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:301,	
	and where b is greater than or equal to a + 14.	
829103		R34801, N36324, D81161, D81435,
	one or more polynucleotides comprising a	C15688, C15742
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	801 of SEQ ID NO:302, b is an integer of 15 to	
	815, where both a and b correspond to the positions	
	of nuclcotide residues shown in SEQ ID NO:302.	
	and where b is greater than or equal to a + 14.	
829104		R08917. R09023. T95465. R07005.
		R19551, R37796, R43901, R43901.
		R65802. R65897, R77267, R77316.
		R82856, R82857, H15156, H15216,
1		R93133, H77582, H77583, N45210.
1		N50021, N55569, N58316, N59861,
1		N59869. N76954, N77681, N93112.
		W38788, W52631, AA011659.
1	14.	AA011707. AA043405, AA133302,
		AA133248, AA134238, AA134239.
		AA150954. AA151044, AA459974,
1		AA460066, AA503364, AA522740,
1		AA522866. AA523791. AA602932,
i		AA602716, AA876807, AA877039,
		AA879223, AA923007, AA935208.
		A1082642, A1094830
829109	Preferably excluded from the present invention are	
1	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	143 of SEQ ID NO:304, b is an integer of 15 to	
	157, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:304,	
	and where b is greater than or equal to a + 14.	
829111	Preferably excluded from the present invention are	
1	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
	329 of SEQ ID NO:305, b is an integer of 15 to	
1	B43, where both a and b correspond to the positions	
1	of nucleotide residues shown in SEQ ID NO:305,	
	and where b is greater than or equal to a + 14.	
829115		AA064674, AA078775
	one or more polynucleotides comprising a	
}	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
1	682 of SEQ ID NO:306. b is an integer of 15 to	
	696, where both a and b correspond to the positions	
1	of nucleotide residues shown in SEQ ID NO:306.	
	and where b is greater than or equal to a + 14.	
829116	Preferably excluded from the present invention are	

1	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
	382 of SEQ ID NO:307, b is an integer of 15 to	
1	396, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO 307.	
1	and where b is greater than or equal to a + 14.	
829119	Preferably excluded from the present invention are	T51849, T51895, R31503, H89196.
(-2711)	one or more polynucleotides comprising a	W94076. AA233517, AA557320,
	nucleotide sequence described by the general	AA582238, AA604556, AA659141
ļ	formula of a-b, where a is any integer between 1 to	AA362236, AA004330, AA033141
	535 of SEO ID NO:308, b is an integer of 15 to	
	549, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:308.	
	and where b is greater than or equal to a + 14.	
829120	Preferably excluded from the present invention are	
1	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
	1764 of SEQ ID NO:309, b is an integer of 15 to	
	1778, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ 1D	
	NO:309, and where b is greater than or equal to a +	
	14.	
829121	Preferably excluded from the present invention are	T79424, T86294, T98674, R00295,
		R41707. R42706, R45491. R46655,
		R41707, R42706, R45491, R46655.
		R56768. R71860. R71861, H17970.
1		N55536, N80100, W46264,
1		W46265, W46263, W72406,
	of nucleotide residues shown in SEO ID NO:310,	W73710, W76436, AA133997.
	and where b is greater than or equal to a + 14.	AA470389, AA514398, AA524707.
ļ	and where o is greater than of equal to a 1 14.	AA536170, F15823, AA731228.
1		AA766110, AA825368, AA828215,
		AA833768, AA837103, AA918015,
1		AA988068, AA999844, W46262.
1	ľ	C04804, AA062584, AA082539
829123	Backward Add and	
829123		T53735, T53833, T73419, T79418,
	one or more polynuclcotides comprising a	T79419, AA035245, AA530898,
		AA588281, AA631068, C01039
	formula of a-b, where a is any integer between 1 to	
	1405 of SEQ ID NO:311, b is an integer of 15 to	
	1419, where both a and b correspond to the	
1	positions of nucleotide residues shown in SEQ ID	
	NO:311, and where b is greater than or equal to a +	
<b></b>	14.	-
829126	Preferably excluded from the present invention are	
1	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
1	formula of a-b. where a is any integer between 1 to	
	512 of SEQ ID NO:312, b is an integer of 15 to	
1	526, where both a and b correspond to the positions	
1	of nucleotide residues shown in SEQ ID NO:312,	
L	and where b is greater than or equal to a + 14.	
829135	Preferably excluded from the present invention are	
1	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
	production and anient described by the general	

829136	formula of 3-b, where a is any integer between 1 to 2421 of SEQ ID NO:313, b is an integer of 15 to 2435, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:313, and where b is greater than or equal to a + 14.  Preferably excluded from the present invention are one or more polynucleotides comprising a	N24451. N54675. AA135096. AA164383. AA180531. AA180520.
	nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2529 of SEQ ID NO:314. b is an integer of 15 to 2543, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:314, and where b is greater than or equal to a + 14.	AA179618. AA180509, C17250
829138	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to \$14 of \$EQ ID NO.315, b is an integer of 13 to \$2.8, where both a and b correspond to the positions of nucleotide residues shown in \$EQ ID NO.315, and where b is greater than or equal to a + 14.	[15756, 1786491, R00102, R00105, R09150, R09256, R09555, R98556, R98557, H82687, N32324, N23249, N27394, N40804, N52001, N54610, N62238, N69979, N79347, N98381, N98581, N98559, W24241, W30694, W3916, W49642, W49773, W93332, W95036, N09230, A0107562, A022871, AA022872, AA151308, AA151309, AA203551, AA461104, AA424178, AA424102, AA46798, AA513455, AA564159, AA576616, AA579641, AA740779, AA65374, AA938596, AA972781, AA641536, AA092083
829142	Preferably excluded from the present invention are one or more polyueuleotides comprising a nucleotide sequence desembed by the general formula of a-b, where a is any integer between 1 to 1594 of SEQ ID NO.316. b is an integer of 15 to 1608, where both a and be correspond to the positions of nucleotide residues shown in SEQ ID NO.316, and where b is greater than or equal to a + 14.	
829148	one or more polynucleotides comprising a mucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1043 of SEQ 1D NO:317, b is an integer of 15 to 1057, where both a and b correspond to the positions of nucleotide residues shown in SEQ 1D NO:317, and where b is greater than or equal to a + 14.	T70817, H97087. N28699, N59032, W31740, W63702
829149	one or more polynucleotides comprising a	ITS7875, AA062633, AA180493, AA255651, AA815168, AA827196, AA988896, AI032193

	7	r
	14.	
829156	Preferably excluded from the present invention are	
1	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between I to	
	482 of SEQ ID NO:319, b is an integer of 15 to	
	496, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:319.	
	and where b is greater than or equal to a + 14.	
829162	Preferably excluded from the present invention are	W28213. C20991
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1742 of SEQ ID NO:320, b is an integer of 15 to	
	1756, where both a and b correspond to the	
1	positions of nucleotide residues shown in SEO ID	
	NO:320, and where b is greater than or equal to a +	
	14.	· .
829170		T54688
829170	Preferably excluded from the present invention are one or more polynucleotides comprising a	134088
	nucleotide sequence described by the general	
1		
1	formula of a-b, where a is any integer between 1 to	
	574 of SEQ ID NO:321, b is an integer of 15 to	
i	588, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:321,	
	and where b is greater than or equal to a + 14.	
829177	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
1	724 of SEQ ID NO:322, b is an integer of 15 to	
	738, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:322,	
	and where b is greater than or equal to a + 14.	
829179	Preferably excluded from the present invention are	
1	one or more polynucleotides comprising a	
ł	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
l	862 of SEQ ID NO:323, b is an integer of 15 to	
	876, where both a and b correspond to the positions	
	of nucleotide residues shown in SEO ID NO:323.	
	and where b is greater than or equal to a + 14.	
829184	Preferably excluded from the present invention are	
1	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1308 of SEQ ID NO:324, b is an integer of 15 to	
ĺ	1322, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
1	NO:324, and where b is greater than or equal to a +	
	14.	
829185	Preferably excluded from the present invention are	
027103	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
1	328 of SEQ ID NO:325, b is an integer of 15 to	
	342. where both a and b correspond to the positions	
	pre, where done a and o correspond to the positions	

	of nucleotide residues shown in SEQ 1D NO:325, and where b is greater than or equal to a + 14.	
829188	Preferably excluded from the present invention are	T58653. T58703. T75221. T77245.
	one or more polynucleotides comprising a	T77461, R09770, R10874, R10923,
	nucleotide sequence described by the general	T78618, R05603, R12362, R13912,
	formula of a-b. where a is any integer between 1 to	R23445. R26046. R37744. R39442.
	β676 of SEQ ID NO:326, b is an integer of 15 to	R43682, R44004, R43682, R44004,
	3690, where both a and b correspond to the	H27016. H50941, H51605. H52497.
	positions of nucleotide residues shown in SEQ ID	N23353. N28825, N35021, N45029,
	NO:326. and where b is greater than or equal to a +	N52865, N93751, N94155,
	14.	W67224, W67334, W78117,
		W79824, W94552, W92625,
		AA036842, AA040393, AA040497.
		AA074284. AA075940. AA135258.
		AA157449, AA159938. AA188822.
		AA188883, AA223533. AA280881.
		AA280961, AA515694, AA573708.
		AA720966, AA730134, AA761564,
		AA805432, AA826208, AA831736,
		AA833940. AA834312. AA888244.
		AA911536, AA918643, AA922815,
00000		AA932119. AA933022
829190	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
	705 of SEQ ID NO:327, b is an integer of 15 to	
	719. where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:327,	
829193	and where b is greater than or equal to a + 14.  Preferably excluded from the present invention are	AA043829
027173	one or more polynucleotides comprising a	1.7.043629
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	975 of SEQ ID NO:328, b is an integer of 15 to	
	989, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:328,	
	and where b is greater than or equal to a + 14.	
829196		AA156138
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	420 of SEO ID NO:329, b is an integer of 15 to	
	434, where both a and b correspond to the positions	
	of nucleotide residues shown in SEO ID NO:329,	
	and where b is greater than or equal to a + 14.	
829197		R13055
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	682 of SEQ ID NO:330, b is an integer of 15 to	
	696, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:330.	
	and where b is greater than or equal to a + 14.	
829202	Preferably excluded from the present invention are	
829202	Preferably excluded from the present invention are one or more polynucleotides comprising a	

1	formula of a-b. where a is any integer between 1 to	
	527 of SEQ ID NO 331, b is an integer of 15 to	
	541, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:331.	
	and where b is greater than or equal to a + 14	
829203	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	ļ
1	291 of SEQ ID NO:332. b is an integer of 15 to	
	305, where both a and b correspond to the positions	
1	of nucleotide residues shown in SEQ 1D NO:332,	
	and where b is greater than or equal to a + 14.	
829209	Preferably excluded from the present invention are	H96926
1	one or more polynucleotides comprising a	
	nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to	
1		
1	431 of SEQ ID NO:333, b is an integer of 15 to H45, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:333,	
	and where b is greater than or equal to a + 14.	
829210	Preferably excluded from the present invention are	
027210	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
	303 of SEQ ID NO:334, b is an integer of 15 to	
	317, where both a and b correspond to the positions	
	of nucleotide residues shown in SEO ID NO:334,	
	and where b is greater than or equal to a + 14.	
829214		T65464, T65607, T65616, R68318,
		R81279, H19079, H21595,
		W38816, AA173621, AA195611,
		AA461025, AA429991. AA281779,
	1510 of SEQ ID NO:335, b is an integer of 15 to	AA523034
	1524, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:335, and where b is greater than or equal to a +	
829215	14.	
829215	Preferably excluded from the present invention are one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	292 of SEQ ID NO:336, b is an integer of 15 to	
1	306, where both a and b correspond to the positions	
1	of nucleotide residues shown in SEQ ID NO:336,	
	and where b is greater than or equal to a + 14.	
829219	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
1	277 of SEQ ID NO:337, b is an integer of 15 to	
	291, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:337,	
	and where b is greater than or equal to a + 14.	
829220		T91056. R08770, R10337, T85922,
	one or more polynucleotides comprising a	R08771. N30353. N33349, N34024.
1	nucleotide sequence described by the general	N36835, N43012, N46055, N46938.

	formula of a-b. where a is any integer between 1 to 1250 of SEQ ID NO.338, b as an integer of 15 to 1264, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.338, and where b is greater than or equal to a + 14.	N47028, R.V.S.163, N.S.309, N.55453, N.S.7768, N.S.9733, N.O.2846, R.70614, N.76825, N.77753, W.04936, W.46253, W.57356, W.690670, W.88648, A.A081410, A.A233146, A.A251750, A.A485043, A.A554001, A.A528053, A.A632073, A.A632010, A.A576915, A.A814024, A.A829780, A.A887202, A.A902514, A.A927412, A.D056152, A.085313, A.1084085
829222	Preferably excluded from the present invention are one or more polymucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 745 of SEQ ID NO:339, b is an integer of 15 to 759, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:339, and where b is greater than or equal to a + 14.	T53949, T55484, T55410, N57462, N93015, W21365, W88723, AA025365, AA081355, AA081356, AA418410, AA418507, AA422027, AA593855, AA593915, AA639807,
829223	Preferably excluded from the present invention are ane or more polyuculeotides comprising a nucleotide sequence described by the general formula of a-b, where is a my fineger between 1 to 2625 of SEQ ID NO.340, b is an integer of 15 to 2639, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.340, and where b is greater than or equal to a + 14.	T39922, N73780, N74186, N99401, W49823, AA026960, AA028073, AA418303, AA418345, AA425606, AA425545, AA426176, AA279347, AA492172, AA587366, AA621961, AA621973, AA834751, AA641513
829225	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1820 of SEQ ID NO.341, b is an integer of 15 to 1824, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.341, and where b is greater than or equal to a + 14.	T64318, T65668, AA016241, AA173963, AA618544
829226	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 4817 of SEQ ID NO.342, b is an integer of 15 to 4831, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.342, and where b is greater than or equal to a + 14.	RI7300, R31023, R61393, R61438, R61438, R61703, R61704, R72584, R72589, R74189, R74276, R78679, H20944, L22649, H39794, R84924, H79108, H397109, H81746, H81747, N32103, N38733, N45414, N472287, N47414, N472287, N47414, N472287, N47414, N472287, N47414, N47287, N47414, N47287, N47414, N47287, N47414, N474287, N474144, N474144, N47444, N4744444, N4744444, N4744444, N4744444, N4744444, N4744444, N4744444, N47444444, N47444444444, N4744444444, N474444444444

		AA918850. AA946925. D81172.
		D81397. D78876, C01437. N86700.
		N88264. C05670. C18759
829227	Preferably excluded from the present invention are	T47087, T47086, R44450, R44450.
1	one or more polynucleotides comprising a	H13259, H95459, AA035630.
	nucleotide sequence described by the general	AA179511, AA418751, AA527136.
	formula of a-b, where a is any integer between 1 to	AA961714, AA992449
1	570 of SEQ ID NO:343. b is an integer of 15 to	
ļ	584, where both a and b correspond to the positions	İ
	of nucleotide residues shown in SEQ ID NO:343,	
	and where b is greater than or equal to a + 14.	
829231	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
	764 of SEQ ID NO:344, b is an integer of 15 to	
	778, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:344.	
	and where b is greater than or equal to a + 14.	
829232	Preferably excluded from the present invention are	N26050. N40415. N41638.
	one or more polynucleotides comprising a	AA001329, AA001916, AA158802.
	nucleotide sequence described by the general	AA158803, AA213393, AA213394,
	formula of a-b, where a is any integer between 1 to	AA213538, AA424282, AA459213,
	3726 of SEQ ID NO:345, b is an integer of 15 to	AA482209. AA482297, AA580754,
1	3740, where both a and b correspond to the	AA729270. AA737966. AA742269.
1	positions of nucleotide residues shown in SEQ ID	AA804199, AA937087, N33467,
1	NO:345, and where b is greater than or equal to a +	N43860, C02233
	14.	1
000000	0 0 14 1 1 10 1	
829233	Preferably excluded from the present invention are	
829233	one or more polynucleotides comprising a	
829233	one or more polynucleotides comprising a nucleotide sequence described by the general	
829233	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to	
829233	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 432 of SEQ ID NO:346, b is an integer of 15 to	
829233	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 432 of SEQ ID NO:346, b is an integer of 15 to 446, where both a and b correspond to the positions	
829233	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 432 of SEQ ID NO:346. b is an integer of 15 to 446, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:346,	
	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 432 of SEQ ID NO:346, b is an integer of 13 to 446, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:346, and where b is greater than or equal to a + 14.	
829233 829239	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 432 of SEQ ID NO:346, b is an integer of 15 to 446, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:346, and where b is greater than or equal to a ± 14.  Preferably excluded from the present invention are	
	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 432 of SEQ ID NO:346, b is an integer of 15 to 446, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:346, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a	
	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 432 of SEQ ID NO:346, b is an integer of 15 to 446, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:346, and where b is greater than or equal to a +14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general	
	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 432 of SEQ ID NO-346. b is an integer of 15 to 446, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-346, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to	
	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 432 of SEQ ID NO:346, b is an integer of 15 to 446, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:346, and where b is greater than or equal to a +14. Preferably excluded from the present invention are one more polynucleotides comprising a nucleotide sequence described by the general 1 formula of a-b, where a is any integer between 1 to 768 of SEQ ID NO:347, b is an integer of 15 to	
	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 432 of SEQ ID NO-346. b is an integer of 15 to 446, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-346, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to	
	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 432 of SEQ ID NO-346. Is an integer of 15 to 446, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-346, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are nor more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 768 of SEQ ID NO-347, b is an integer of 15 to 782, where both a and b correspond to the positions	
	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 432 of SEQ ID NO:346, b is an integer between 1 to 432 of SEQ ID NO:346, b is an integer of 13 to 446, where both at and b correspond to the positions of nucleotide residues shown in SEQ ID NO:346, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 786 of SEQ ID NO:347, b is an integer of 13 to 782, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:347, is an ISEQ ID NO:347.	
829239	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 432 of SEQ ID NO:346. Is an integer of 15 to 446, where both a and be correspond to the positions of nucleotide residues shown in SEQ ID NO:346, and where b is greater than or equal to a * 14. Preferably excluded from the present invention are not or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 768 of SEQ ID NO:347, b is an integer of 15 to 782, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:347, and where b is greater than or equal to a * 14.	
829239	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 432 of SEQ ID NO:346, b is an integer of 13 to 446, where both at and 6 correspond to the positions of nucleotide residues shown in SEQ ID NO:346, and where b is greater than or equal to a ± 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 768 of SEQ ID NO:347, b is an integer of 15 to 782, where both and to correspond to the positions of nucleotide residues shown in SEQ ID NO:347, and where b is greater than or equal to a ± 14. Preferably excluded from the present invention are	
829239	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 432 of SEQ ID NO:346. Is an integer of 15 to 446, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:346, and where b is greater than or equal to a + 1.4.  Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 785 of SEQ ID NO:347, and where b is greater than or equal to a + 14.  Preferably excluded from the present invention are one or more polynucleotides cought to 347, and where b is greater than or equal to a + 14.  Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a b-b, where a is any integer between 1 to	
829239	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 432 of SEQ ID NO:346, b is an integer of 15 to 446, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:346, and where b is greater than or equal to a ± 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 768 of SEQ ID NO:347, b is an integer of 15 to 782, where both a and b correspond to the positions of nucleotide registers shown in SEQ ID NO:347, and where b is greater than or equal to a ± 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 425 of SEQ ID NO:348, b is an integer of 15 to 325 of SEQ ID NO:348. S is an integer of 15 to 325 of SEQ ID	
829239	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 432 of SEQ ID NO:346. Is an integer of 15 to 446, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:346, is and where b is greater than or egual to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 788 of SEQ ID NO:347, bis an integer of 15 to 782, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:347, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 425 of SEQ ID NO:348, b is an integer of 15 to	
829239	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 432 of SEQ ID NO:346, b is an integer of 15 to 446, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:346, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 768 of SEQ ID NO:347, b is an integer of 15 to 782, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:347, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 425 of SEQ ID NO:348, is an integer of 15 to 439, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:348, is an integer of 15 to 630 functional feeting the same properties of the same	
829239	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 432 of SEQ ID NO:346. Is an integer of 15 to 446, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:346, is and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 788 of SEQ ID NO:347, bit is an integer of 13 to 782, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:347, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 425 of SEQ ID NO:348, bit an integer of 15 to 439, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:348, and where b is greater than or equal to a + 14.	
829239	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 432 of SEQ ID NO:346, b is an integer of 15 to 446, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:346, and where b is greater than or equal to a + 144. Preferably excluded from the present invention are not or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 768 of SEQ ID NO:347, b is an integer of 15 to 782, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:347, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are not or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 425 of SEQ ID NO:348, is an integer of 15 to 439, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:348, is and where b is greater than or equal to a + 14. Preferably excluded from the present invention are	T91514. T91542. T94168. T78752.
829239	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 432 of SEQ ID NO:346, is an integer of 15 to 446, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:346, and where b is greater than or equal to a + 1.4. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any tinger between 1 to 788 of SEQ ID NO:347, b is an integer of 13 to 1782, where both and to correspond to the positions of nucleotide residues shown in SEQ ID NO:347, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 425 of SEQ ID NO:348, b is an integer of 15 to 439, where both and b correspond to the positions of nucleotide residues shown in SEQ ID NO:348, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides conqual to a + 14.	R14281, R31952, R32000, R37970,
829239	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 432 of SEQ ID NO-346, b is an integer of 15 to 446, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-346, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are not or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 768 of SEQ ID NO-347, b is an integer of 15 to 782, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-347, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are nor or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 425 of SEQ ID NO-348, and where b is greater than or SEQ ID NO-348, and where b is greater than or properties of nucleotide residues shown in SEQ ID NO-348, and where b is greater than or properties of nucleotide residues shown in SEQ ID NO-348, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are non or more polynucleotides comprising a nucleotides exquence described by the general	R14281, R31952, R32000, R37970, R37971, R39326, R40572, R40572.
829239	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 432 of SEQ ID NO:346, is an integer of 15 to 446, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:346, is of where b is greater than or equal to a + 1.4. Preferably excluded from the present invention are nee or more polynucleotide comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 788 of SEQ ID NO:347, and where b is greater than or equal to a + 144. Preferably excluded from the present invention are need to the sequence described by the general formula of a-b, where a is any integer between 1 to 788 of SEQ ID NO:347, and where b is greater than or equal to a + 144. Preferably excluded from the present invention are need or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 425 of SEQ ID NO:348, bit an integer of 15 to 439, where both and be correspond to the positions of nucleotide residues shown in SEQ ID NO:348, and where b is greater than or equal to a + 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a -b, where a is any integer between 1 to more or more polynucleotides comprising a nucleotide sequence described by the general formula of a -b, where a is any integer between 1 to much a formula of a -b, where a is any integer between 1 to much and a corresponding to the polynucleotides comprising a nucleotide sequence described by the general formula of a -b, where a is any integer between 1 to a nucleotide sequence described by the general formula of a -b, where a is any integer between 1 to a nucleotide sequence described by the general formula of a -b, where a is any integer between 1 to a nucleotide sequence described by the general formula of a -b, where a is any integer between 1 to a n	R14281, R31952, R32000, R37970,

	2356, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:349, and where b is greater than or equal to a + 1.4.	H97030, N26679, N35814, N39832, N64783, N76195, N92867, N95188, W21346, W2593, W61031, W78096, W79455, AA022610, AA022611, AA02261, AA10267, AA171440, AA190925, AA101317, AA22381, AA223381, AA223381, AA223818, AA240987, AA51444, AA342884, AA429051, AA451458, AA342958, AA450951, AA352887, AA514144, AA342884, AA429058, AA450951, AA542888, AA450951, AA542888, AA450952, AA540952, AA540954, AA857515, AA505524, AA805526, AA805526, AA805526, AA805526, AA887515, AA328895, AA857516, AA887515, AA328866, AA995666, AB095666, AB095666, AB095666, AB095666, C20619
829246	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1205 of SEQ ID NO.330, b is an integer of 15 to 1219, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.330, and where b is greater than or equal to a + 14.	
829250	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 394 of SEQ ID NO:351. b is an integer of 15 to 408, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:351, and where b is greater than or equal to a + 14.	
829253	Preferably excluded from the present invention are one or more polyuculeotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1280 or SEQ ID NO.352, b is an integer of 15 to 1283, where both a and b correspond to the positions of macleotide residues shown in SEQ ID NO.352, and where b is greater than or equal to a + 14.	
829256	3215 of SEQ ID NO:353, b is an integer of 15 to 3229, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:353, and where b is greater than or equal to a + 14.	R1728A. R17354. R17854. R24590. R33671. R33788. R35944. R36246. R36247. R36926. R43105. R44395. R49460. R49460. R44395. R3610. H24440. H24469. H22721. H83591. N50755. N55574. N64383. N92180. N50817. AA019697. AA026244. AA026441. AA037458. AA037544. AA127492. AA127587. AA109007. AA243225. AA243269, AA2792099. AA23849. AA507466. AA695822. AA731780. AA736864, AA766007. AA000592

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829263	Preferably excluded from the present invention are	N41747
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	492 of SEQ ID NO:354, b is an integer of 15 to	
1	506, where both a and b correspond to the positions	
1	of nucleotide residues shown in SEQ ID NO:354,	
1	and where b is greater than or equal to a + 14.	
829266	Preferably excluded from the present invention are	
1	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	728 of SEQ ID NO:355, b is an integer of 15 to	
1	742, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:355,	
	and where b is greater than or equal to a + 14.	
829271	Preferably excluded from the present invention are	T39261, T49204, T72303, T71643,
027271	one or more polynucleotides comprising a	R07380, T66682, T82066, T83481.
	nucleotide sequence described by the general	R01790, R16223, R20708, R81714.
		H06087, H09039, H46863, R96294,
	1681 of SEQ ID NO:356. b is an integer of 15 to	H50808, H84189, H84190, H84400,
	1695, where both a and b correspond to the	H91054, H91348, H96283, N32070,
	positions of nucleotide residues shown in SEQ ID	N39797, N45073. N45382,
		W04773, W21170, W52394.
1	14.	W51822, AA017710, AA017711,
		AA019476, AA021323, AA021324,
		AA044865, AA045153, AA054523,
		AA081533, AA083253, AA084388,
		AA083588, AA101641, AA101642,
		AA101720, AA135652, AA136639,
1		AA136846, AA151892, AA179772,
		AA180489, AA187824, AA188556,
		AA224078, AA232050, AA232154,
		AA425968, AA531528, AA581305,
1		AA742833, D83801. D83850,
		W22420
829273	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
l	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between I to	
	914 of SEQ ID NO:357, b is an integer of 15 to	
	928, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:357,	
	and where b is greater than or equal to a + 14.	
829274	Preferably excluded from the present invention are	
02,2,4	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
1	1360 of SEO ID NO:358, b is an integer of 15 to	
1	1374, where both a and b correspond to the	
1	positions of nucleotide residues shown in SEQ ID	
!		
	NO:358, and where b is greater than or equal to a +	
	14	
829276	Preferably excluded from the present invention arc	
1	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	

	4138 of SEQ ID NO:359, b is an integer of 15 to	
	4152, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:359, and where b is greater than or equal to a +	
	14.	
829279	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to	
	1142 of SEQ 1D NO:360, b is an integer of 15 to	
	1156, where both a and b correspond to the	1
	positions of nucleotide residues shown in SEQ ID	1
	NO:360, and where b is greater than or equal to a +	1
	14	
829280	Preferably excluded from the present invention are	
027200	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	362 of SEQ ID NO:361, b is an integer of 15 to	
	376, where both a and b correspond to the positions	1
	of nucleotide residues shown in SEQ ID NO:361.	
	and where b is greater than or equal to a + 14.	
829283	Preferably excluded from the present invention are	1
	one or more polynucleotides comprising a	I
	nucleotide sequence described by the general	1
	formula of a-b, where a is any integer between I to	
	505 of SEQ ID NO:362, b is an integer of 15 to	
	519, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ 1D NO:362,	
	and where b is greater than or equal to a + 14.	
829284	Preferably excluded from the present invention are	R35022, N53092, W56437,
	one or more polynucleotides comprising a	AA425107, AA429328, AA639462
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to 1371 of SEO ID NO:363, b is an integer of 15 to	1
	1385, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:363, and where b is greater than or equal to a +	
	14.	1
829285	Preferably excluded from the present invention are	T98355, N35799, N68373,
	one or more polynucleotides comprising a	AA233837, AA234338, AA541363,
	nucleotide sequence described by the general	C05871, C06442
	formula of a-b, where a is any integer between 1 to	
	963 of SEQ ID NO:364, b is an integer of 15 to	
	977, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:364,	
	and where b is greater than or equal to a + 14.	
829287	Preferably excluded from the present invention are	T75573, T75574, T89291, T92020,
	one or more polynuclcotides comprising a	T92115, R09394, R09395, T81925,
	nucleotide sequence described by the general	T81926, T84370, H15008, H15009,
	formula of a-b, where a is any integer between 1 to	H22443, H22477, H42624, H70914,
	950 of SEQ ID NO:365, b is an integer of 15 to	H70998, H91740, H70914, N21387,
	964, where both a and b correspond to the positions	N21568, N29475, N31342, N35714,
	of nucleotide residues shown in SEQ ID NO:365,	N39243, N46687, N58940, N62219,
	and where b is greater than or equal to a + 14.	N62544, N71355, N73001, N79212,
		N79311, N80035, N92595, N95523,
		N99823, W02965, W06998,

		W17066, W17239, W37312,
		W37553, W38873, W38985.
i		W42735, W42825, W44743,
		W45210, W60642, W60643,
		W61216, W72457, W73365,
		W73442, W73919, W74445.
	V.	W78073, W94432, W92526.
		W95225, N89652, N89752,
		AA034453, AA046851, AA046813.
	V.	AA053964, AA055047, AA055127,
		AA074513, AA081359, AA084042,
		AA098833, AA112180, AA136464,
i		AA165072, AA164675, AA190836,
		AA255622, AA256734, AA428625,
		AA484049, AA513283, AA535853,
i		F16222, AA587936, AA614830,
		AA767121, AA814435, AA832516,
		AA829611. AA829918. AA872922.
		AA910970, AA987945, AA988657,
		AA948052, A1094757, D79222.
		D79845, W79251, C00060
829295	Preferably excluded from the present invention are	N79069, N94383, AA046494.
	one or more polynucleotides comprising a	AA046766, AA101963, AA099652,
	nucleotide sequence described by the general	AA135109, AA135264, AA148582,
	formula of a-b, where a is any integer between 1 to	AA148581, AA150460, AA156662,
1	1283 of SEQ 1D NO:366, b is an integer of 15 to	AA534768, AA557811, AA687147,
1	1297, where both a and b correspond to the	AA730106, AA810732, AA911850
	positions of nucleotide residues shown in SEQ ID	
	NO:366, and where b is greater than or equal to a +	
	14.	
829296	Preferably excluded from the present invention are	
i	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
	771 of SEQ ID NO:367, b is an integer of 15 to	
	785, where both a and b correspond to the positions	
i	of nucleotide residues shown in SEQ ID NO:367,	
000000	and where b is greater than or equal to a + 14.	
829297		H63163, H69239, AA291944,
	one or more polynucleotides comprising a	AA827871, AA995955
	nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to	
	906 of SEQ ID NO:368, b is an integer of 15 to	
	920, where both a and b correspond to the positions	
	of nucleotide residues shown in SEO ID NO:368.	
	and where b is greater than or equal to a + 14.	
829298	Preferably excluded from the present invention are	T85571, T85572, T98605, R06410,
027270	one or more polynucleotides comprising a	R06411, R72558, W25247.
		W58681, AA126722, AA137218, AA136191, AA531469, AA565025,
		AA948354, AA978354, AA988766.
	834, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:369,	A1057145, N95214
	and where b is greater than or equal to a + 14.	
829302	Preferably excluded from the present invention are	T65369, R16190, R51781, H70499,
027302		AA203397
	nucleotide sequence described by the general	MAKUJ91
	proceedings sequence described by the general	

	formula of a-b. where a is any integer between 1 to	1
	933 of SEQ ID NO:370, b is an integer of 15 to	
	947, where both a and b correspond to the positions	i
	of nucleotide residues shown in SEQ 1D NO:370.	
	and where b is greater than or equal to a + 14.	
829304	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
i	formula of a-b, where a is any integer between 1 to	
	2326 of SEQ ID NO:371, b is an integer of 15 to	
	2340, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
1	NO:371, and where b is greater than or equal to a +	
829320		
829320	Preferably excluded from the present invention are	T83172, T83188, T98062, H14392,
	one or more polynucleotides comprising a nucleotide sequence described by the general	AA196911. AA514594
1		
	formula of a-b, where a is any integer between 1 to 1561 of SEQ ID NO:372, b is an integer of 15 to	
	1575, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
İ	NO:372, and where b is greater than or equal to a +	
	14.	
829322	Preferably excluded from the present invention are	
027522	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between I to	
	1864 of SEQ ID NO:373, b is an integer of 15 to	
	1878, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:373, and where b is greater than or equal to a +	
	14.	
829355	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
	832 of SEQ ID NO:374, b is an integer of 15 to	
1	846, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:374,	
	and where b is greater than or equal to a + 14.	
829364		R10800, H79360, AA130522
1	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
	643 of SEQ ID NO:375, b is an integer of 15 to	
	657, where both a and b correspond to the positions	
1	of nucleotide residues shown in SEQ ID NO:375,	
829919	and where b is greater than or equal to a + 14.  Preferably excluded from the present invention are	
027719	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	681 of SEQ ID NO:376, b is an integer of 15 to	
1	695, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:376,	
	and where b is greater than or equal to a + 14.	
829941	Preferably excluded from the present invention are	
	pro-cition are	

	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
	3596 of SEQ ID NO:377, b is an integer of 15 to	
İ	3610, where both a and b correspond to the	
	positions of nucleotide residues shown in SEO ID	
	NO:377, and where b is greater than or equal to a +	1
	14.	
829945	Preferably excluded from the present invention are	
029943	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
İ	formula of a-b, where a is any integer between 1 to	
	normal of a-b, where a is any integer between 1 to	
	209 of SEQ ID NO:378, b is an integer of 15 to	
	223. where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:378,	
	and where b is greater than or equal to a + 14.	
829946	Preferably excluded from the present invention are	AA288019, AA502347, AA904261
	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	1
	formula of a-b, where a is any integer between 1 to	
	795 of SEQ ID NO:379. b is an integer of 15 to	1
	809, where both a and b correspond to the positions	1
	of nucleotide residues shown in SEQ ID NO:379,	1
l	and where b is greater than or equal to a + 14.	
829947	Preferably excluded from the present invention are	T66737, T66738, T74003, T77189,
	one or more polynucleotides comprising a	T80326, R13808, R14624, R15371,
1	nucleotide sequence described by the general	R16290, R19838, R21469, R24972,
	formula of a-b, where a is any integer between I to	R37667, R38092, R39443, R39761,
	2536 of SEQ ID NO:380, b is an integer of 15 to	R40215, R40379, R42113, R45233,
	2550, where both a and b correspond to the	R42113, R42856, R40215, R40379,
	positions of nucleotide residues shown in SEQ ID	R45233, R45937, R56287, R59950,
	NO:380, and where b is greater than or equal to a +	R59951, R60203, R60436, H09760,
	14.	H09845, H10702, H10703, H19185,
	p	H29333, H29426. N94574,
		W30864, W45066, W45179.
		W47249, W47622, W47621.
		W73903, W74765, W95498.
		W95585, AA039360, AA039359,
		AA043667, AA057482, AA083653,
		AA088919. AA131592, AA135473,
		AA135544, AA147364, AA147416,
1		AA161437, AA164913, AA165378,
1		AA164333, AA181099, AA430483,
1	1	AA281878, AA291947, AA493956,
		AA582300. AA740445, AA743497,
		AA875945, AA878761, AA923149,
1		AA931525, AA931950, AA935699,
I	1	AA947521, AA962775, AA977566,
	1	AA984017, AA988746. Al095060,
1		D82399, W25818, W51914,
		C15840
829952	Preferably excluded from the present invention are	R17678, R26888, R27120, R35870,
1	one or more polynucleotides comprising a	R35871, R51276, R66882, R67967,
ĺ	nucleotide sequence described by the general	H27381, H28345, H38579, R93605,
	formula of a-b, where a is any integer between 1 to	R97908, R97907, H53653, H61431,
	1254 of SEO ID NO:381, b is an integer of 15 to	H61432, H62657, H63776, H63826,
	1254 of SEQ ID NO:381. b is an integer of 15 to	
	11200, where boin a and b correspond to the	H65287. H65810, H89508, H89654,

	positions of nucleotide residues shown in SEO ID	N74909, W23437, AA026270,
	NO:381, and where b is greater than or equal to a = 14.	AA026558, AA177150, AA515407, AA527495, AA535324, AA594129, AA568558, AA864390, AA999878, A1014459, A1017407, A1017824
829954	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 for 404 of SEQ ID NO:332, b is an integer of 15 to 854, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:332. I and where b is greater than or equal to a +1 4.	
829955	Preferably excluded from the present invention are not or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1077 of SEQ (D) NO/383. b is an integer of 15 to 1091. where both a and b correspond to the positions of nucleotidd residues shown in SEQ ID NO/383, and where b is greater than or equal to a + 14.	T47229, T47230, R02311, R43154, R51528, R43154, H42209, R88215, N49583, N93033, W21271, W31966, AA029149, AA513795, AA548338, AA612791, AA633375, AA830042, AA917951, N83314, N86243, C02678
829957	preferably excluded from the present invention are one or more polynucleotides comprising a mucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1013 of SEQ ID NO:384, b is an integer of 15 to 1029, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:384, and where b is greater than or equal to a + 14.	139580, T40683, H476-13, R92700, R99102, R99644, H53816, H58313, H58722, H61999, H61990, H63765, H63808, H73313, H73501, N38910, A96488, N66640, N69478, N75847, W01771, W07430, W74706, W747430, W34710, W74743, W34741, W37531, W37504, A026367, A021697, A0411259, A026367, A026367, A026367, A036358, A0133609, A0157688, A015767, A02637, A026367, A02637, A0
829958	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 569 of SEQ ID NO:385, b is an integer of 15 to 583, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:385, and where b is greater than or equal to a + 14.	W31195, W38386, N90200, AA04573, AA04575, AA04626, AA04579, AA082177, AA129757, AA133252, AA187005, AA188378, AA226394, AA491262, AA532135, AA527421, AA527902, AA532379, AA534891, AA760765, AA766192, AA769476, AA805805, AA816940, AA826696, AA873340, AA876696,
829960	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2396 of SEQ ID NO:386, b is an integer of 15 to	T87492. T89410. T89773. T80188. T83347. T83577. T85604. T86095. H44324. R86738. R86745. R87175, R87176. R93579. R97628. H59234, H67776. H69384. H89665. H90369. H91278. H93827. N59685. N73235.

	positions of nucleotide residues shown in SEQ ID NO:386, and where b is greater than or equal to a + I.4.	N77230, N99493, W01516, W07398, W07499, AA011532, AA127663, AA127842, AA127871, AA131770, AA131783, AA203697, AA223149, AA637524, AA770678, AA828971, AA937743
829966	Proferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 675 of SEQ ID NO.387, b is an integer of 15 to 689, where both and be correspond to the positions of nucleotide residues shown in SEQ ID NO.387, and where b is greater than or cast lot a 1-d. and where b is greater than or cast lot a 1-d.	T94747, T91992, R10556, T95267, T95268, H90557, N59601, W02671, W03166, AA523419
829967	Preferably excluded from the present invention are one or more polynucleotides comprising a pucieotide sequence described by the general formula of a-b, where a is any integer between 1 to 784 of SEQ ID NO:388, b is an integer of 13 to 798, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:388, and where b is greater than or equal to a + 14.	TISSES, T. TGGS16, T90190, R073-84. TSIGA2E, TRIS PS. TSIGA: TSIG
829970	Preferably excluded from the present unvention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1677 of SEQ ID NO.339, b is an integer of 15 to 1691, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.339, and where b is greater than or equal to a + 14.	W57592, AA253247
829981	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 440 of SEQ ID NO.390, b is an integer of 15 to 454, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.390, and where b is greater than or equal to a + 14.	N44941
829985		T58690. H10115. AA101544. AA171779, AA173847

	and where b is greater than or equal to a + 14.	
829986	Preferably excluded from the present invention are	R72689, H39575, AA516440.
027700	one or more polynucleotides comprising a	AA662417
	nucleotide sequence described by the general	MA002417
	formula of a-b, where a is any integer between I to	
	913 of SEQ ID NO:392, b is an integer of 15 to	
	927, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:392,	
	and where b is greater than or equal to a + 14.	
829988		
829988	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1009 of SEQ ID NO 393, b is an integer of 15 to	
	1023, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:393, and where b is greater than or equal to a + 14.	
829990		
97550	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	808 of SEQ ID NO:394, b is an integer of 15 to	
	822, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:394,	
829991	and where b is greater than or equal to a + 14.	N. 100000
829991	Preferably excluded from the present invention are	N22386, AA461107, AA493109,
	one or more polynucleotides comprising a	AA932044, AA976154, AA995814
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between I to	
	1688 of SEQ ID NO:395, b is an integer of 15 to	
	1702, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:395, and where b is greater than or equal to a +	
220002		
829992	Preferably excluded from the present invention are	W44338, W44452, AA600841,
		AA577032, AA936480, AA973451
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	844 of SEQ ID NO:396, b is an integer of 15 to	
	858, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:396,	
920002	and where b is greater than or equal to a + 14.	
829993	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
	1096 of SEQ ID NO:397, b is an integer of 15 to	
	1110, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:397, and where b is greater than or equal to a +	
	14.	
829998		R12950. R56786, H09888, H91803
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	850 of SEQ ID NO:398, b is an integer of 15 to	

	864, where both a and b correspond to the positions	
1	of nucleotide residues shown in SEQ ID NO:398.	
	and where b is greater than or equal to a + 14.	
829999	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
	257 of SEQ ID NO:399, b is an integer of 15 to	[
1	271, where both a and b correspond to the positions	
	of nucleotide residues shown in SEO ID NO:399,	
1	and where b is greater than or equal to a + 14.	
830000	Preferably excluded from the present invention are	
111111	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	911 of SEQ ID NO:400, b is an integer of 15 to	
	925, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:400,	
	and where b is greater than or equal to a + 14.	
830001	Preferably excluded from the present invention are	
050001	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1071 of SEQ ID NO:401, b is an integer of 15 to	
İ	1085, where both a and b correspond to the	
	positions of nucleotide residues shown in SEO ID	
	NO:401, and where b is greater than or equal to a +	
1	14.	
830005	Preferably excluded from the present invention are	
050005	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	334 of SEQ ID NO:402, b is an integer of 15 to	
	348, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:402,	
	and where b is greater than or equal to a + 14.	
830009	Preferably excluded from the present invention are	
*******	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1456 of SEQ ID NO:403, b is an integer of 15 to	
	1470, where both a and b correspond to the	
	positions of nucleotide residues shown in SEO ID	
	NO:403, and where b is greater than or equal to a +	
	14.	
830010	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	2473 of SEO ID NO:404, b is an integer of 15 to	
	2487, where both a and b correspond to the	
1	positions of nucleotide residues shown in SEQ ID	
1	NO:404, and where b is greater than or equal to a +	
1	14	
830127	Preferably excluded from the present invention are	T80487, R61657
03012/	one or more polynucleotides comprising a	100-107, K01037
1	nucleotide sequence described by the general	
	nucleotide sequence described by the general	L

930125	formula of a-b, where a is any integer between 1 to 1242 of SEQ ID NO:405. b is an integer of 15 to 1256, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:405, and where b is greater than or equal to a + 14.	
830128	Preferably excluded from the present invention are one or more polynucleorides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 757 of SEQ 1D NO-406, b is an integer of 15 to 771, where both and bo correspond to the positions of nucleotide residues shown in SEQ 1D NO-406, and where b is greater than or equal to a + 14.	
830129	Preferably excluded from the present invention are one or more polynuclecidisc comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 2629 of SEQ ID NO-407, b is an integer of 15 to 2643, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-407, and where b is greater than or equal to a + 14.	Ti3379. Ti3397. Ti3394. Ti2085. Ti2142. R2044. R78170. R78927. R79027. R79077. H98608. N48338, N925282. N95751. AA015228. AA03528. AA03528. AA11541. AA114162. AA112802. AA112934. AA1129628. AA130575. AA12934. AA129628. AA130575. AA129394. AA157263. AA157360. AA129379. AA212962. AA157360. AA223729. AA223816. AA489148. AA533164. AA353426. AA552794. AA533164. AA535426. AA552794. AA533164. AA535426. AA552794. AA93788. AA948245. AA574718. AA93788. AA948245. AA574518. AA9474784. D002302. AI051153. N84559. N86782. AA642578. NA093419. N86782. AA642578. NA093419. N86782. AA642578. NA093419. N86782. AA642578. NA093419. N86782. AA642578. NA093419. N86782. AA642578. NA093419. N86782. AA642578. NA093419. N86782. AA642578. NA093419. N86782. AA642578. NA093419. N86782. AA642578. NA093419. N86782. AA642578. NA093419. N86782. AA642578. NA093419. N86782. AA642578. NA093419. N86782. AA642578. NA093419. N86782. AA642578. NA093419. N86782. AA642578. NA093419. N86782. AA642578. NA093419. N86782. N86782. AA642578. NA093419. N86782. N86
830137	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1632 of SEQ ID NO-408, b is an integer of 15 to 1646, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-408, and where b is greater than or equal to a + 14.	
830140	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 862 of SEQ ID NO-409, b is an integer of 15 to 876, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-409, and where b is greater than or equal to a + 14.	
830157	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1836 of SEQ ID NO-410, b is an integer of 15 to 1850, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-410, and where b is greater than or equal to a +	

	14.	T
830195	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 647 of SEQ ID NO:411. b is an integer of 15 to 661, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:411, and where b is greater than or coula to a + 14.	
830196	Preferably excluded from the present invention are not or more polymeleotides comprising a nucleotide sequence described by the general formula to 4-b. where a is any integer between 1 to 1249 of SEQ ID NO.412, b is an integer of 15 to 1263, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.412, and where b is greater than or equal to a + 14.	Ta7007. T47008. T59996. T65678. T72797. T73043. R0327. R347. R172797. T73043. R0327. R347. R18043. R0327. R347. R18043. H89946. H98876. W79567. AA069850. AA070319. AA074422. AA076399, AA0781601. AA113902. AA126480. AA134602. AA134668. AA134668. AA139466. AA159786. AA159786. AA159786. AA159786. AA159786. AA15986. AA15986. AA15986. AA15986. AA223587. AA227300. AA223587. AA223587. AA223587. AA223587. AA223587. N32710. N85080. W28216. W28475. W28
830409	Preferably excluded from the present invention are one or more polyuncleotides comprising a mucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1333 of SEQ ID NO.413, b is an integer of 15 to 1337, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.413, and where b is greater than or equal to a + 14.	
830417	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 778 of SEQ ID NO-414, b is an integer of 15 to 792. where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-414, and where b is greater than or equal to a + 14.	T70867, R12290, T78032, T80453, T80532, R12432, R182507, R81585, R23508, R515316, R52075, R53640, H12996, H22829, H63914, H64034, H71775, H85810, H97709, N42249, W39175, AA018311, AA018491, AA018481, AA012491, AA0179678, AA018481, AA022651, AA0179678, N4147778, AA26551, A26794837, N84172, W95500, C02827, C04397, AA090040
830531	Preferably excluded from the present invention are one or mor polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1328 of SEQ ID NO.415, b is an integer of 15 to 1342, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.415, and where b is greater than or equal to a + 14.	
830677	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to	

	1099 of SEQ ID NO:416. b is an integer of 15 to	
1	positions of nucleotide residues shown in SEO ID	
1	NO:416. and where b is greater than or equal to a +	
1	14.	
831355		
05.555	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1160 of SEO ID NO:417, b is an integer of 15 to	
	1174, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:417, and where b is greater than or equal to a +	
	14.	
831420		
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
1	659 of SEQ ID NO:418. b is an integer of 15 to	
	673, where both a and b correspond to the positions	
1	of nucleotide residues shown in SEQ ID NO:418. and where b is greater than or equal to a + 14.	
831702	Preferably excluded from the present invention are	
831702	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between I to	
1	2164 of SEQ ID NO:419, b is an integer of 15 to	
	2178, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	1.01
	NO:419, and where b is greater than or equal to a +	
	14.	
831717		
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1870 of SEQ ID NO:420, b is an integer of 15 to	
	1884, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:420, and where b is greater than or equal to a +	
832488	Preferably excluded from the present invention are	
032400	one or more polynucleotides comprising a	
ł	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
	608 of SEQ ID NO:421, b is an integer of 15 to	
	622, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:421,	
	and where b is greater than or equal to a + 14.	
833207	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
	1271 of SEQ ID NO:422, b is an integer of 15 to	
	1285, where both a and b correspond to the	
1	positions of nucleotide residues shown in SEQ ID	
1	NO:422, and where b is greater than or equal to a +	
L	ji <del>4</del> .	

835940	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 514 of SEQ 10 No.423, b is an integer of 15 to 528, where both a and b correspond to the positions of nucleotide residues shown in SEO 1D No.423, and where b is greater than or equal to a 1 14.	
836953	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 3104 of SEQ ID NO-424. b is an integer of 15 to 3118, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-424, and where b is greater than or equal to a + 14.	
837105	Preferably excluded from the present invention are one or more polymuclocitides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1396 of SEQ ID NO-425. b is an integer of 15 to 1410, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-425, and where b is greater than or equal to a + 14.	
837300	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1408 of SEQ ID NO:426, b is an integer of 15 to 1422, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID	R22778. H06717, H18453, H26987, H26988. N33207, N44745, W57874, W58145, AA040435, AA278615, AA507344, AA558666, AA578863, AA872443, AA877052, AA877120, AA879047, AA887537, AA910397, AA931214, A1025125, AA040434
837373	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 816 of SEQ ID NO-427, is an integer of 15 to 830, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-427, and where b is greater than or equal to a + 14.	R21137. H67522. AA081145, AA082099, AA082371, AA130000, AA130415, AA130417, AA132638, AA136918, AA147401, AA157404, A186519, AA16340, AA186565, AA190000, AA191038, AA190612, AA640918, AA649308, AA314706, AA640391, AA65960, AA814425, AA6932379, AA691224, AA9740, AA932379, AA691224, AA9740, AA932379, AA691224, AA9740, AA977316, A1002396, N83374, N83520, N83658, N8366, N86560, N86680, N87938, N88164, N89316, C14148,
837687	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1608 of SEQ ID NO-428, b is an integer of 15 to 1622, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-428, and where b is greater than or equal to a+	

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837991	Preferably excluded from the present invention are	
	one or more polynucleorides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	534 of SEQ ID NO:429, b is an integer of 15 to	
	548. where both a and b correspond to the positions	1
	of nucleotide residues shown in SEQ ID NO:429.	
838442	and where b is greater than or equal to a + 14	
838442	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between I to	
	555 of SEQ ID NO:430, b is an integer of 15 to	
	569, where both a and b correspond to the positions	1
	of nucleotide residues shown in SEQ ID NO:430.	
	and where b is greater than or equal to a + 14.	
840541	Preferably excluded from the present invention are	AA205009, AA471299
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	1
	formula of a-b. where a is any integer between 1 to	I
	535 of SEQ ID NO:431, b is an integer of 15 to	
	549. where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:431.	
	and where b is greater than or equal to a + 14.	
840543	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	l
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1207 of SEQ ID NO:432, b is an integer of 15 to	
	1221, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:432, and where b is greater than or equal to a +	
	14.	
840550	Preferably excluded from the present invention are	T53643, T53644, R67842, R67843,
		R79329, H12321, H40510, R83261,
		R88722, R90978, R97638, H51690,
		H52190, H78699, H89714, N58070
		N69832, N98971, AA251228,
	1115, where both a and b correspond to the	AA251227, AA282101, AA513006,
	positions of nucleotide residues shown in SEQ ID	AA528240, AA558167, AA593383,
		AA574200, AA577197, AA765822,
	14.	AA847143, AA863087, AA931049,
		AA694054
840563		R38732, R71612, R71613, N24083,
		N31377, N47304, N48623,
		W87303, W90742, W90798.
		AA011634, AA011635, AA253397.
		AA253501, AA257091, AA257121,
		AA427877, AA503469, AA565303,
		AA587449, AA613721, AA740312,
	NO:434, and where b is greater than or equal to a +	C01498. AA434535, AA443422.
		AA454584, AA677081, AI022365,
840565		AI052631, AA693545
040202	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	

	formula of a-b. where a is any integer between 1 to	
	287 of SEQ ID NO:435. b is an integer of 15 to	
1	301, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:435,	
	and where b is greater than or equal to a + 14.	
840569	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
	304 of SEQ ID NO:436, b is an integer of 15 to	
	318, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:436,	
	and where b is greater than or equal to a + 14.	
840570	Preferably excluded from the present invention are	AI075277, AA675912, AA675911
1	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between I to	İ
1	1868 of SEQ ID NO:437, b is an integer of 15 to	
	1882, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
1	NO:437, and where b is greater than or equal to a +	
	14.	
840571	Preferably excluded from the present invention are	T47828. T47852, T64841, T65430,
	one or more polynucleotides comprising a	T65510. T72584, R17181, R19667,
	nucleotide sequence described by the general	R34515. R41731, R44453, R49058.
1	formula of a-b, where a is any integer between I to	R50770, R51812, R41731, R49058,
	2042 of SEQ ID NO:438, b is an integer of 15 to	R44453, H11004, H15433, H15488,
	2056, where both a and b correspond to the	H28705, H28834, AA515873.
1	positions of nuclcotide residues shown in SEQ lD	AA687085, AA863313, AA903803,
1	NO:438, and where b is greater than or equal to a +	AA452278, AA452447, AA781246,
	14.	AA972396, AA993822, AI002821,
		T10761. D25941, Z41977, Z40833.
1		Z44675, F01498, F03695, F07749,
0.40572	0.6.11	F11901, F12192, F09548, F09821
840573	Preferably excluded from the present invention are	AA149788
1	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
	707 of SEQ ID NO:439, b is an integer of 15 to	
1	721, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:439,	
840574	and where b is greater than or equal to a + 14.	T(5500 D40000 D40040 F
840574		T65588, R40688, R42248, R53793,
		R53794, R42248, R20733, R40688,
	nucleotide sequence described by the general	R66541. R68438, R68439, R77228,
		R77229. R77595, H18969, H20988,
		H21032, H49673, H50064, N72287,
		N80600, W07440, W40167.
1		AA034401, AA035044, AA035506,
		AA035555, AA182662, AA182740,
1		AA483608, AA588302, AA602357,
		AA604612, AA639138, D81410,
		D81461, D81692, A1097583,
1		C15094. AA404494, AA705982.
840575		A1080676, A1095724, F09676 W68038, W93774
840373	Preferably excluded from the present invention are one or more polynucleotides comprising a	W00030, W93//4

840609	and where b is greater than or equal to a + 14.  Preferably excluded from the present invention are	
	478 of SEQ ID NO:446, b is an integer of 15 to 492, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:446,	
840607	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to	
	14.	AA931838, AA935053, AA96888), AA971410, AA973830, AA974807, AA977019, AA991272, AA975535, C02768, AA094041, AA478779, AA478898, AA487854, AA777751, AA845416, AA960904, A1027197, A1027391, A1093994, A1094088, IZ4618, T25054, Z41574
840605	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2139 of SEQ ID NO:445, b is an integer of 15 to 2153, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID	TS\$718, R60700, R60701, H30380, H30430, N42386, AA126493, AA126620, AA128024, AA128067, AA236455, AA234073, AA470382, AA503709, AA635761, AA573225, AA573330, AA659473, AA807615, AA824445, AA825364, AA888670,
840581	PreCenably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 416 of SEQ ID NO-444, b is an integer of 15 to 430, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-444, band where b is greater than or equal to a *14.	
840580	Prefembly excluded from the present invention are non or more polyunclecitides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1885 of SEQ ID NO.443, b is an integer of 15 to 1899, where both a and b correspond to the positions of nucleothed residues shown in SEQ ID NO.443, and where b is greater than or equal to a + 14.	
840579	positions of nucleotide residues shown in SEQ ID NO-411, and where b is greater than or equal to a + 14.  Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1790 of SEQ ID NO-442, b is an integer of 15 to 1723, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-442, and where b is greater than or equal to a + 14.	R25715, R72972, N42280, N99672, AA046377, AA112337, AA137170, AA156083, AA156289, AA234550, AA236661, AA251743, AA256954, AA256645, AA704119, A1073518, AA773818
	nucleotide sequence described by the general formula of a-b, where a is any integer between I to 1981 of SEQ ID NO:441. b is an integer of 15 to 1995, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID	

	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1525 of SEQ ID NO.447. b is an integer of 15 to 1539, where both a and be correspond to the positions of nucleotide residues shown in SEQ ID NO.447, and where b is greater than or equal to a + 14.	
840610	Preferably excluded from the present invention are one or more polyucalecidisc comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 3969 of SEQ ID NO.448, bit is an integer of 15 to 3983, where both a and b correspond to the positions of nucleotidic residues shown in SEQ ID NO.448, and where b is greater than or equal to a + 14.	
840611	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1153 of SEQ ID NO.449, b is an integer of 15 to 1177, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.449, and where b is greater than or equal to a + 14.	
840612	Preferably excluded from the present invention are one or more polyucaleoidse comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2414 of SEQ ID NO.450, b is an integer of 15 to 2428, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.450, and where b is greater than or equal to a + 14.	
840615	Preferably excluded from the present invention are one or more polyuculectides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer of 15 to 2471 of SEQ ID NO-451, b is an integer of 15 to 2483, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-451, and where b is greater than or equal to a + 14.	16512. T65191, R.)2009. R32056, R69507. R70398. H06201. R94284, R894634, H31 6136, H32705. H99325, N24056, N26430, N35932, N39594, N64740, N70376, W88440, A017294. AA115093, AA115094, AA117634, AA117634, AA117634, AA117634, AA117634, AA117634, AA117634, AA117634, AA117634, AA117634, AA117634, AA117634, AA117634, AA19385, AA117634, AA19386, AA71864, AA19387, AA11864, AA19387, AA11867, AA19387, AA11867, AA19387, AA11878, AA19387, AA117978, AA19380, AA718784, AA19387, AA117978, AA318784, AA117878, AA318784, AA117878, AA318784, AA118784, AA117878, AA318784, AA118784, AA178787, AA117878, AA318784, AA118784, AA118784, AA118784, AA118787, AA18787, AA118787, AA118787, AA118787, AA118787, AA118787, AA118787, AA118787, AA118787, AA118787, AA118787, AA118787, AA118787, AA118787, AA118787, AA118787, AA118787, AA118787, AA118787, AA1187877, AA18777, AA187877, AA18777, AA18777, AA18777, AA18777, AA18777, AA
840622	Preferably excluded from the present invention are	

	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
	949 of SEQ ID NO:452, b is an integer of 15 to	
	963, where both a and b correspond to the positions	
	of nucleotide residues shown in SEO ID NO:452.	
	and where b is greater than or equal to a + 14.	
840623		AA248685
040025	one or more polynucleotides comprising a	MA240005
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
	590 of SEQ ID NO:453, b is an integer of 15 to	
ļ	604, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:453,	
	and where b is greater than or equal to a + 14.	
840624		N38891. N54665, N45221, F13612,
1	one or more polynucleotides comprising a	F13702
	nucleotide sequence described by the general	
1	formula of a-b. where a is any integer between I to	
	1903 of SEQ ID NO:454, b is an integer of 15 to	
1	1917, where both a and b correspond to the	
l .	positions of nucleotide residues shown in SEO ID	
	NO:454, and where b is greater than or equal to a +	
1	14	
840631	Preferably excluded from the present invention are	
0.002	one or more polynucleotides comprising a	
Ì	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between I to	
	1524 of SEQ ID NO:455, b is an integer of 15 to	
	1538, where both a and b correspond to the	
	positions of nucleotide residues shown in SEO ID	
	NO:455, and where b is greater than or equal to a +	
040622		THEORY WHENCE WARREN
840632		H15848, H16160, H27966, H27967,
		H42798, H87969, N64073, N64076,
		N64078, AA045740, AA280032,
1		AA280099, AA283727, AA290929,
		AA814009, AA975514, AI094746,
		AA449900, AA716758, AA724921,
		AA860380, AA909482
	NO:456, and where b is greater than or equal to a +	
	14.	
840633	Preferably excluded from the present invention are	
1	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1385 of SEQ ID NO:457, b is an integer of 15 to	
1	1399, where both a and b correspond to the	
l	positions of nucleotide residues shown in SEQ ID	
	NO:457, and where b is greater than or equal to a +	
	14.	
840634		AA063114
040034	one or more polynucleotides comprising a	AA003114
	one of more polynocicondes comprising a	
1	nucleotide sequence described by the general	
l	formula of a-b. where a is any integer between I to	
	695 of SEQ ID NO:458, b is an integer of 15 to	
	709, where both a and b correspond to the positions	

	of nucleotide residues shown in SEQ ID NO:458.	
	and where b is greater than or equal to a + 14.	
840635	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between I to	
	1269 of SEQ ID NO:459, b is an integer of 15 to	
	1283, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:459, and where b is greater than or equal to a +	
840636	Preferably excluded from the present invention are	
840030	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
	421 of SEQ ID NO:460, b is an integer of 15 to	
	435, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:460,	
	and where b is greater than or equal to a + 14.	
840637	Preferably excluded from the present invention are	AA001547, AA012848, AA012933
	one or more polynucleotides comprising a	AA017085, AA017194, AA018490.
	nucleotide sequence described by the general	AA810954
	formula of a-b. where a is any integer between 1 to	
	640 of SEQ ID NO:461, b is an integer of 15 to	
	654, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:461,	
	and where b is greater than or equal to a + 14.	
840639	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	2231 of SEQ ID NO:462, b is an integer of 15 to	
	2245, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:462, and where b is greater than or equal to a +	
	14.	
840640	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	l i
	nucleotide sequence described by the general	ļ
	formula of a-b, where a is any integer between I to	
	1266 of SEQ ID NO:463, b is an integer of 15 to	
	1280, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:463, and where b is greater than or equal to a +	
840650	Preferably excluded from the present invention are	
040000	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	2417 of SEO ID NO:464, b is an integer of 15 to	
	2431, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:464, and where b is greater than or equal to a +	i
	14	
840652	Preferably excluded from the present invention are	
0-10032	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	municonide sequence described by the general	

	formula of a-b, where a is any integer between 1 to	
	575 of SEQ ID NO:465. b is an integer of 15 to	
	589, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:465.	
	and where b is greater than or equal to a + 14.	
840653	Preferably excluded from the present invention are	1
	one or more polynucleotides comprising a	1
	nucleotide sequence described by the general	
1	formula of a-b. where a is any integer between 1 to	
	1093 of SEQ ID NO.466, b is an integer of 15 to	
	1107, where both a and b correspond to the	
1	positions of nucleotide residues shown in SEQ ID	
	NO:466, and where b is greater than or equal to a + 14.	
840655	Preferably excluded from the present invention are	
840033	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	i
	formula of a-b, where a is any integer between I to	i
	2183 of SEQ ID NO:467, b is an integer of 15 to	
	2197, where both a and b correspond to the	
	positions of nucleotide residues shown in SEO ID	
	NO:467, and where b is greater than or equal to a +	
	14.	
840659	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	ļ
1	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	ĺ
	3597 of SEQ ID NO:468. b is an integer of 15 to	
l	3611, where both a and b correspond to the	
1	positions of nucleotide residues shown in SEQ ID	
	NO:468, and where b is greater than or equal to a +	
0.10110	14.	
840660		AA253121, AA253250
	one or more polynucleotides comprising a nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	506 of SEQ ID NO:469, b is an integer of 15 to	
	520, where both a and b correspond to the positions	
1	of nucleotide residues shown in SEQ ID NO:469,	
	and where b is greater than or equal to a + 14.	
840661	Preferably excluded from the present invention are	R40087, AA483309, AA720883,
1	one or more polynucleotides comprising a	AA747744, AA811974, AA853049
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	865 of SEQ ID NO:470, b is an integer of 15 to	
	879, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:470,	
	and where b is greater than or equal to a + 14.	
840662	Preferably excluded from the present invention are	R13355, R21688, R23614, R26167,
	one or more polynucleotides comprising a	R40871. R46580, R46580, R40871,
	nucleotide sequence described by the general	R67867, R67868. H01101. H01102,
	formula of a-b, where a is any integer between 1 to	H01867, H01868. H02834, H03726,
	2543 of SEQ ID NO:471. b is an integer of 15 to	H93708. H95440. H95441, N53845,
		N66438, N68125. N69039, N73342,
	positions of nucleotide residues shown in SEQ ID	AA045604. AA045603, AA101337,
		AA100423. AA101346. AA101345,
	14.	AA156296. AA157481. AA158453,

		AA158452. AA181954. AA187577, AA428908. AA251008. AA281174. AA551925. AA557463. AA558077. AA742447. AA768547. AA814696, AA991197. A1017348. C05887. C06049. AA093441. AA496804. AA599560. AA665699, AA707837, AA775203. AA843259. AA844411. AA889762. A1091389
840663	Preferably excluded from the present invention are one or more polynucleorides comprising a nucleoride sequence described by the general formula of a-b. where a is any integer between 1 to 453 of SEQ ID NO-472, b is an integer of 15 to 467, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-472, and where b is greater than or equal to a -1 4.	
840670	Preferably excluded from the present invention are one or more polynucleorides comprast nauleoride sequence described by the general formula of a-b. where a is any integer between 1 to 1826 of SEQ ID NO.473. b is an integer of 15 to 1840, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.473, and where b is greater than or equal to a + 14.	17109.2, T67636, R08286, H13339, H16147, H25692, H38182, R84798, R98981, N79217, W19493, W25579, AA034100, AA056965, AA262921, AA70972, AA768301, AA825825, AA972578, AA094484, AA394311, AA487380, AA778203, A1004258, A1005389, Z39071, Z42947, F02333, F06078, AA682274
840671	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1244 of SEQ ID NO.474, b is an integer of 15 to 1258, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.474, and where b is greater than or equal to a + 14.	R46252, R46252, N49076, W04352, W86176, W86177, W92672, W92692, W93417, AA029831, AA085198, AA464962, AA633124, AA737628, AA737662, AA780382, AA811098, AA836105, AA857959, AA994284, AI076231, C01217, AA780068, AI004350
840672	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 4217 of SEQ ID NO.475, b is an integer of 15 to 4231, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.475, and where b is greater than or equal to a + 14.	
840673	Preferably excluded from the present invention are one or more polynucleotides comprising a functionide sequence described by the general formula of a-b, where a is any integer between 1 to 577 of SEQ 10 NO-476, is an integer of 15 to 591, where both a and b correspond to the positions of nucleotide residues shown in SEQ 10 NO-476, and where b is greater than or equal to a + 14 ft.	
840674	one or more polynucleotides comprising a	R51915, R54456, R54458, H18062, H18757, W03838, W77892, AA629317, F09686

	1404 of SEQ ID NO:477, b is an integer of 15 to	
	1418, where both a and b correspond to the	1
	positions of nucleotide residues shown in SEQ ID	
	NO:477. and where b is greater than or equal to a +	1
0.104.77	14.	
840677	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to	
	1223 of SEQ ID NO:478, b is an integer of 15 to	1
1	1237, where both a and b correspond to the	1
1	positions of nucleotide residues shown in SEO ID	
i	NO:478, and where b is greater than or equal to a +	1
	14.	
840678	Preferably excluded from the present invention are	T63520, R75617, R75713, R78802,
	one or more polynucleotides comprising a	R79103, H25459, H27826, H85479,
	nucleotide sequence described by the general	H85486, H92403, H92620,
Į.	formula of a-b. where a is any integer between 1 to	AA001384, AA001383, AA057832,
1	1084 of SEQ 1D NO:479, b is an integer of 15 to	AA235008, AA253050, AA424651,
1	1098, where both a and b correspond to the	AA430054. AA430263. AA287947,
	positions of nucleotide residues shown in SEQ ID	AA288014, AA481556, AA491320,
	NO:479, and where b is greater than or equal to a +	AA505123, AA548974, AA715297,
	14.	AA736510, AA747303, AA748308,
		AA829746, AA909843, AA916866,
		AA642031, AA211184, AA398153, AA399494, AA477559, AA477676,
		AA782481, A1079168, A1040143,
		A1080176, A1082310, D12148
840680	Preferably excluded from the present invention are	11000170;711002310; 212110
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	670 of SEQ ID NO:480, b is an integer of 15 to	
	684, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ 1D NO:480,	
L	and where b is greater than or equal to a + 14.	
840691	Preferably excluded from the present invention are	T83393, T84298, T84482, R72668,
		H05782, H06072, H17206,
		AA199607, AA236200, AA234037, AA256784, AA256492, AA256503,
		AA256504, AA255526, AA256710,
	2995, where both a and b correspond to the	AA424131, AA515794, AA580599,
		AA748677, AA872189, AA937350.
		AA995072, C00417, AA451719,
		AA992171, AI091615, F01634,
		F05381
840700		N74558, W02490, AA250756.
	one or more polynucleotides comprising a	AA721388, AA937643, AA077596,
		AA633788, AA779964, AA812535,
1		AA912417, AA978273, AA993172,
	1234 of SEQ ID NO:482, b is an integer of 15 to	AA993810, D20826
	1248, where both a and b correspond to the	
1	positions of nucleotide residues shown in SEQ ID	
1	NO:482, and where b is greater than or equal to a +	
840701	Preferably excluded from the present invention are	R72545, H77545, H77546, H91001.
040/01	one or more polynucleotides comprising a	W46287, W67764, W67765,

	nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1848 of SEQ 10 NO.948. b is an integer of 15 to 1862, where both a and b correspond to the positions of nucleotide residues shown in SEQ 1D NO.483, and where b is greater than or equal to a + 14.	W72232. W76469. W95399. W95448. AA171990. AA172306. AA193490. AA193486. AA215714. AA481093. AA687382. AA721070. AA731304. AA765386. AA807488. AA830428. AA836173. AA872876. AA903225. AA947751. AA948309. AA679104. AA708104. AA84807.
840702	Prefembly excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1650 of SEQ ID NC)484. b is an integer of 15 to 1664, where both a and be correspond to the positions of nucleotide residues shown in SEQ ID NC-484, and where b is greater than or equal to a + 14.	TO-0642, T83169, R3-4427, R36239, R46638, R48960, R46633, H08738, R46038, R48960, R56633, H08738, N77345, N77705, W80824, W80945, AA025794, AA045928, AA047535, AA047653, AA129564, AA173541, AA173942, AA173942, AA173541, AA61511, AA256639, AA326279, AA61511, AA256730, AA876721, AA876373, AA977525, W26186, AA045814, AA455935, AA716649, AA716749, AA777167, AA884059, AA910769, AA913276, A1091820, Z30152, Z38891, F059571, F1070
840705	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 955 of SEQ ID NO-485, b is an integer of 15 to 969, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-485, and where b is creater than or equal to a + 14.	
840715	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 2558 of SEQ ID NO.486, b is an integer of 15 to 2572, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.486, and where b is greater than or equal to a + 14.	
840717	ne or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1437 of SEQ ID NO-487, b is an integer of 15 to 1451, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-487, and where b is greater than or equal to a + 14.	179990, R.16372, R.25837, R.32657, R.22117, R.46853, R.51348, R.5854, R.46858, R.42317, R.60577, R.60630, R.71932, R.7552, L.06281, H.06328, H.10997, H.26530, W.71994, W.76508, W.87458, W.87554, A.0.029711, A.0.29772, A.0.3981, A.0.039766, A.0.06839, A.0.047010, A.0.037673, A.0.069571, A.0.047010, A.0.057673, A.0.07571, A.0.075751, A.0.669997, A.0.705373, A.0.776517, A.0.669997, A.0.705373, A.0.776517, A.0.057398, A.1078071, T.17221, Z.0755, Z.45050
840718	Preferably excluded from the present invention are one or more polynucleotides comprising a	

01 11 14 14 14 14	ne or more polynucleotides comprising a ucleotide sequence described by the general urmula of a-b, where a is any integer between 1 to 437 of SEQ ID NO-493.b is an integer of 15 to 451, where both a and b correspond to the ositions of nucleotide residues shown in SEQ ID (O-493, and where b is greater than or equal to a + 4.	R11513, R11731, R12441, R17288, R56469, R60452, H1488, P41054, R56192, H78221, H78221, H78420, H78427, N44642, N50726, N63598, N74649, N79564, W24822, AA121181, AA179753, AA180330, AA210820, AA217643, AA761355, AA948300, AA687763, AA761353, AA948300, AA203176, AA216635, AA404332, AA434598, AA703138
	695 of SEQ ID NO:492, b is an integer of 15 to 709, where both a and b correspond to the ositions of nucleotide residues shown in SEQ ID 10:492, and where b is greater than or equal to a + 4.	
o n fc 2. 2 2 p	referably excluded from the present invention are ne or more polynucleotides comprising a ucleotide sequence described by the general	
o n fi l I P N	ne or more polynucleotides comprising a uclcotide sequence described by the general ormula of a-b. where a is any integer between 1 to 845 of SEQ ID NO.491, b is an integer of 15 to 859, where both a and b correspond to the ositions of nucleotide residues shown in SEQ ID iO:491, and where b is greater than or equal to a + 4.	T52811. T52812, R55360, R55607, H29580, H2964, N34552, N59374, N72870, N76477, N78788, N99946, W03090, W03905, W07215. W40445, W99359, W99389, AA031339, AA054995, AA120818, AA021331, AA236542, AA424556, AA424655, AA514847, AA528821, AA654104, AA680872, AA464625, Z38400, Z4213408, AA678629, AA644625, Z38400, Z4213640, Z42146625, Z38400, Z4213640, Z42146625, Z38400, Z4213640, Z42146625, Z38400, Z4213640, Z42146625, Z38400, Z4213646, Z42146625, Z438406, Z4214664625, Z38400, Z4214664625, Z38406, Z4214664625, Z38400, Z4214664625, Z38400, Z4214664625, Z38400, Z4214664625, Z38400, Z4214664625, Z38400, Z4214664625, Z38400, Z4214664625, Z38400, Z4214664625, Z38400, Z4214664625, Z38400, Z4214664625, Z38400, Z421466466466466466646666666666666666666
840719 P 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	nucleotide sequence described by the general ormula of a-b. where a is any integer between 1 to 186 of SEQ ID NO-488. b is an integer of 15 to 200, where both and be correspond to the positions of nucleotide residues shown in SEQ ID NO-488. and where b is greater than or equal to a + 4.  Perferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general ormula of a-b. where a is any integer between 1 to 71 of SEQ ID NO-489, b is an integer of 15 to 83. where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-489, and where b is greater than or equal to a + 14.  Preferably excluded from the present invention are nor more polynucleotides comprising a uncleotide sequence described by the general ormula of a-b. where a is any integer between 1 to 68 of SEQ ID NO-490, b is an integer of 15 to 82. where both and be correspond to the positions of nucleotide residues shown in SEQ ID NO-490, bit an integer of 15 to 82. where both and be correspond to the positions of nucleotide residues shown in SEQ ID NO-490, and where b is greater than or equal to a + 14.	

	1254 of SEQ 1D NO:494. b is an integer of 15 to	1
	1268, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:494. and where b is greater than or equal to a +	
	14.	
840734	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	370 of SEQ ID NO:495, b is an integer of 15 to	
	384, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:495,	
	and where b is greater than or equal to a + 14.	
840736	Preferably excluded from the present invention are	W42658, W45183, W78758,
	one or more polynucleotides comprising a	W80493, W84630, W84681,
	nucleotide sequence described by the general	W87610, W87901, W94898,
	formula of a-b, where a is any integer between 1 to	W91935, AA484859, AA484987,
	961 of SEQ ID NO:496, b is an integer of 15 to	AA505968, AA640115. AA573309.
		AA657855, AA659105, AA659440,
	of nucleotide residues shown in SEQ ID NO:496,	AA715002, AA732364. AA740180.
	and where b is greater than or equal to a + 14.	AA742752, AA746960, AA804898,
		AA825656, AA825665, AA987818,
		N83465, C14070, AA643844,
		AA652253, F20803, AA432012,
		AA678021, AA733050, AA782910.
		AA846523, AI076183, AI085413,
		D19829
840737	Preferably excluded from the present invention are	T67132, T67133, T87248, H56042,
	one or more polynucleotides comprising a	H56119, N25201, N69014,
	nucleotide sequence described by the general	AA128513, AA129959, AA425701,
	formula of a-b, where a is any integer between 1 to	AA428551, AA911113, AA976370,
	2061 of SEQ ID NO:497, b is an integer of 15 to	AA987472, AI004931. AI081047,
	2075, where both a and b correspond to the	D80388, D80909, D80910, D81505,
	positions of nucleotide residues shown in SEQ ID	C14479, C14492, C14494, C14493,
	NO:497, and where b is greater than or equal to a +	C14495, C14514, C14527, C15539,
	14.	AA283123, AA779369, AA773654,
		AI051187, AI091167, AI093159,
		T24488, AA694308, AA700909
840739	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1890 of SEQ ID NO:498, b is an integer of 15 to	
	1904, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:498, and where b is greater than or equal to a +	
	14.	
840746	Preferably excluded from the present invention are	R12296, R12807, R16375, R16741,
	one or more polynucleotides comprising a	R18738, R38102, R42319. R43498,
	nucleotide sequence described by the general	R44177, R51993, R51994, R43498,
		R43060, R44177, R42319, H40121,
		H40275, N22396, N69345,
	2871, where both a and b correspond to the	W37333, W38750, AA054559,
		AA054619, AA131766, AA131779,
		AA150020, AA150085, AA255834,
		AA548724, AA807007, AA825362,
		AA828253, N83830, N85321.
		# E 1020233, 1103030, 1103321.

		N86360, AA205805, AA436905, AA709097, AA725018, Z22234,
		T03480, A1016816, A1093402, F08823, F10788
840748	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1610 of SEQ ID NO.500. b is an integer of 15 to 1624, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.500, and where b is greater than or equal to a + 14.	1000
840750	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 834 of SEQ ID NO:501, b is an integer of 15 to 848, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:501, and where b is greater than or equal to a + 14.	
840751	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, there a is any integer between 1 to 3178 of SEQ, the No.502, b is an integer of 15 to 3192, where both a and b correspond to the positions of malcelotide residues shown in SEQ ID NO.502, and where b is greater than or equal to a + 14.	13988.1. 74084.4. T40852, T4085.4. T4086.0. T4086.6. T50407, T508.6. T50407, T508.5. T5074.1. T94376. T94464. H27286, H8189.5. H94293. N78697, N99150, W19295, W12132. W24158. W24537, W45247, W72714, W93341, W39026. AA02706.301, AA065228, AA064926, AA0706301, AA069952, AA127948, AA127948, AA127948, AA127948, AA127948, AA127948, AA167946, AA61928, AA523013, AA99464, AA534995, AA53570, AA556476, AA65476, AA64152, AA523611, AA99463, AA99464, AA53495, AA523611, AA99463, AA594763, AA59463, AA59463, AA594763, AA59463, AA594763, AA59463, AA594763, AA59463, AA594763, AA59463, AA594763,
840757	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 669 of SEQ ID NO:503, b is an integer of 15 to	ANDI 7 V8. AUD9502.Z TS0000, TS004, TS0195, T\$8356, TS8401, T\$8454, T\$9192, T94178, R06456, R06510, R72766, R7276, H02583, H02966, H04264, H39892, H41455, H4479, H46477, H4627, H63507, N64319, N54519, N54756, N65307, N64319, N54519, N54756, A035367, A078756, A079764, A079643, A0797653, A079766, A079643, A079663, A079766, A079643, A079663, A0797663, A079764, A088705, A010045, A010246, A0112276, A011246, A011246,

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A.588860, A.603073, A.604397 A.577162, A.A652810, A.669248 A.689277, A.7714332, A.714522 A.77055, A.779281, A.786192 A.878614, A.991248, A.9714522 A.878614, A.991248, A.9714522 A.8786157, A.947503, A.9753674 A.961870, A.9056844, A.976297 A.983416, A.9858025, A.9858242 A.991908, A.4975722, Al071456, F.19276, F.19560, N84316, N85047, A.6641348, A.6641489, A.6953774 A.4095772, A.0167520, A.6652050 A.6645250, F.21996, F.21995, A.4434141, A.4343612, A.479088, A.4477285, A.4864843, A.6669735, A.4434141, A.4343612, A.479088, A.4477285, A.4864944, A.4835523, A.844771, A.8434279, A.8486028, A.8486115, A.A788775, A.8686115, A.8788775, A.8686115, A.8788775, A.8686115, A.8788775, A.8686028, A.848779 Preferably excluded from the present invention are one or more polynucleotides comprising a			
AA577162, AA662810, AA689218, AA6714322, AA7167320, AA6714348, AA614889, AA7167320, AA6714348, AA614889, AA7167320, AA6714342, AA7167320, AA6714342, AA7167320, AA6714342, AA7167320, AA6714342, AA7167320, AA67143427, AA7167320, AA6714327, AA7167320, AA6714327, AA7167320, AA6714327, AA7167320, AA6714327, AA7167320, AA6714327, AA7167320, AA6714327, AA7167320, AA6714327, AA7167320,			
AA689277, AA714332, AA714522 AA720515, AA729281, AA88414, AA912488, AA934658, AA934616, AA972981, AA88414, AA912488, AA934658, AA934505, AA947503, AA954684, AA976507, AA96824, AA996824, AA998246, AA9882471, AA988276, AA884271, AA988276, AA884271, AA882776, AA884271, AA882776, AA884271, AA882776, AA88426, AA8846115, AA788715, AA881511, AA989575, A1027165, A1090099, D19841			
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AA88414, AA912488, AA934608, AA936157, AA947503, AA956847, AA961820, AA968844, AA976207, AA96827, AA968844, AA976207, AA968844, AA976207, AA988205			AA689277, AA714332, AA714522,
AA93157, AA947503, AA9573047  AA961820, AA968484, AA976227  AA981436, AA9688495, AA988426  AA991968, AA975722, Al074486, F19276, F19560, N84316, N856208, AA981968, AA975722, Al074486, F19276, F19560, N84316, N856208, AA641488, AA641489, AA095772, AA167520, AA65208, AA641248, AA641489, AA095772, AA476038, AA471285, AA434512, AA476038, AA471285, AA434612, AA476038, AA471285, AA43815, AA476088, AA471285, AA43815, AA464278, AA844711, AA78187, AA864028, AA844711, AA78875, AA8661311, AA98975, Al027165, Al090099, D19841  R88018, N46360, N48866  ne or more polynucleotides comprising a			AA720655, AA729281, AA865192,
A A661820, AA96884A, AA976297  AA983196, AA98025, AA988025  AA988025, AA988025, AA988025  AA988025, AA988025, AA988025  F1976, F19566, N84316, N8426  F1976, F19566, N84316, N8426  AA64188, AA697572, A107627  AA64138, AA641889, AA095374, AA095372, AA65205, F21094, F21095, AA654250, F21094, F21095, AA654250, F21094, F21095, AA69414, AA451812, AA470888, AA4711285, A4456883, AA69755, AA431412, AA451813, AA498279, F22216, AA770940, AA855273, AA844771, AA885270, AA864271, AA884271, AA884271, AA884271, AA884271, AA884271, AA884271, AA884271, AA884271, AA884271, AA881511, AA989575, A1027165, A1090099, D19841  R880759  Preferably excluded from the present invention are one or more polymucleotides comprising a			AA888414, AA912488, AA934668,
AA983436, AA988025, AA988426, AA991988, AA975722, AI07686, F19276, F19560, N84316, N85047, AA641488, AA641489, AA095372, AA167230, AA65200, AA654250, F21094, F21095, AA434414, AA434512, AA470088, AA471285, AA435613, AA669785, AA431815, AA438185, AA447088, AA471285, AA438185, AA669785, AA431412, AA438185, AA669785, AA434114, AA438185, AA686028, AA844711, AA43815, AA866028, AA844711, AA88575, AA8661311, AA989575, A1027165, A1090099, D19841  840759  Preferably excluded from the present invention are one or more polynucleotides comprising a			AA936157, AA947503, AA953047,
AA991968, AA975722, Al107486, F19276, F1950, N84316, N85904, AA61348, AA641489, AA095374 AA091772, AA167570, AA652050 AA634250, F21094, F21095, AA434414, AA434512, AA47088, AA471285, AA484683, AA669755 AA431412, AA471815, AA434279 F2216, AA776904, AA935232, AA844771, AA843270, AA846028, AA846711, AA7878715, AA68111, AA989373, A1027165, A1090099, D1941  840759  Preferably excluded from the present invention are one or more polynucleotides comprising a			AA961820, AA968484, AA976297
F19276, F19560, N84316, N85047, AA64 1348, AA641489, AA09374, AA64 1348, AA641489, AA09374, AA095772, AA167520, AA652050 AA654250, F21094, F21095, AA43414, AA43512, AA470088, AA471285, AA486483, AA669755, AA431412, AA431815, AA43279, F22216, AA776904, AA835523, AA846711, AA384771, AA3845720, AA86093, AA846115, AA788715, AA861511, AA989755, AA075094, AA835723, AA846115, AA788715, AA861511, AA989755, AA97694, AA8860, D19841  840759  Preferably excluded from the present invention are one or more polynucleotides comprising a			AA983436, AA988025, AA988424
AA641348, AA641489, AA095374 AA095772, AA157520, AA65250, AA654250, F21094, F21095, AA643414, AA434312, AA47088 AA471285, AA486433, AA669755 AA431412, AA4731815, AA442479, F22216, AA776904, AA835523, AA844771, AA831270, AA84628, AA844771, AA831571, AA841571, AA845715, AA81571, AA849771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA8477			AA991968, AA975722, A1074486,
AA641348, AA641489, AA095374 AA095772, AA157520, AA65250, AA654250, F21094, F21095, AA643414, AA434312, AA47088 AA471285, AA486433, AA669755 AA431412, AA4731815, AA442479, F22216, AA776904, AA835523, AA844771, AA831270, AA84628, AA844771, AA831571, AA841571, AA845715, AA81571, AA849771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA847711, AA84771, AA84771, AA84771, AA84771, AA84771, AA84771, AA8477			F19276, F19560, N84316, N85047,
AA095772, AA167520, AA652050 AA654250, F21094, F21095, AA434414, AA434512, AA470088, AA471285, AA486483, AA669755, AA431412, AA431815, AA434279, F22216, AA776904, AA835232, AA844711, AA942720, AA846029, AA846115, AA788715, AA361511, AA989575, A1027165, A1090099, D19841  840759  Preferably excluded from the present invention are one or more polynucleotides comprising a			
AA654250, F21094 F21095, AA43414, AA434312, AA470088 AA471285, AA486433, AA669755 AA431412, AA431815, AA484279, F22216, AA776904, AA835523, AA844771, AA843270, AA846028, AA846115, AA788715, AA846113, AA788715, AA86113, AA788715, AA86113, AA788715, AA86113, AA788715, AA86113, AA788715, AA861289, B40759  Preferably excluded from the present invention are one or more polynucleotides comprising a			
A434414, AA434512, AA470088 AA471285, AA486483, AA669755 AA431412, AA431815, AA434279, F22216, AA776904, AA835232, AA844771, AA842770, AA846032, AA846115, AA788715, AA861511, AA989575, A1027165, A1090099, D19841  840759  Preferably excluded from the present invention are one or more polynucleotides comprising a			
AA471285, AA486483, AA669755, AA431412, AA431815, AA43279 F22216, AA776994, AA835523, AA844771, AA845270, AA846028, AA846115, AA788715, AA861511, AA989757, A1027165, A1090099, D1941  840759 Preferably excluded from the present invention are one or more polynucleotides comprising a			
A.431412, A.4431815, A.4434279 F22216, A.4776994, A.4835523, A.844771, A.845270, A.8346523, A.8446115, A.788715, A.3861511, A.8989575, A.1027165, A.1090099, D19841  840759 Preferably excluded from the present invention are one or more polynucleotides comprising a one or more polynucleotides comprising a			
F22216, AA776994, AA835523,   AA844711, AA84570, AA846025,   AA846115, AA788715, AA861511,   AA989575, A1027165, A1090099,   D19841   840759			
AA844771, AA845270, AA846028, AA8446115, AA788715, AA861511. AA989575, A1027165, A1090099. D19841  840759 Preferably excluded from the present invention are one or more polynucleotides comprising a			
AA846115, AA788715, AA861511. AA989575, A1027165, A1090099, D19841  R88018, N46360, N48866  no or more polynucleotides comprising a			
AA989575, A1027165, A1090099, D19841  840759 Preferably excluded from the present invention are one or more polynucleotides comprising a			
840759 Preferably excluded from the present invention are one or more polynucleotides comprising a			
840759 Preferably excluded from the present invention are one or more polynucleotides comprising a			
one or more polynucleotides comprising a	840759	Preferably excluded from the present invention are	
nucleonge sequence described by the general		nucleotide sequence described by the general	ĺ
formula of a-b, where a is any integer between I to			
2182 of SEQ ID NO:504, b is an integer of 15 to			
2196, where both a and b correspond to the			
positions of nucleotide residues shown in SEQ ID			
NO:504, and where b is greater than or equal to a +			
14.			
840760 Preferably excluded from the present invention are T73701, T73726, R09199, R09304.			T73701 T73726 P00100 P00304

	one or more polynucleotides comprising a nucleotide sequence described by the general	R18652, R48578, R48679, R73134, H72715, H97957, N56993, N73552,
1	formula of a-b. where a is any integer between 1 to	W74357, W76552, AA278851.
1	935 of SEO ID NO:505. b is an integer of 15 to	AA508168. AA508735, AA512928.
	949, where both a and b correspond to the positions	
		AA528091. AA766418, AA862669,
1	of nucleotide residues shown in SEQ ID NO:505,	AI003767. AI081289, AA417379.
	and where b is greater than or equal to a + 14	AA421192. AA609588, AA706851.
		AA285337. AA993015, Al001776,
840770	6 6 11 1 1 1 6 1	A1082525
840770	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
l .	formula of a-b, where a is any integer between 1 to	
	351 of SEQ ID NO:506, b is an integer of 15 to	
	365, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:506,	
	and where b is greater than or equal to a + 14.	
840781	Preferably excluded from the present invention are	T50486, T50620, T92253, T92297.
i	one or more polynucleotides comprising a	T75117, R13719, R20099, R20756,
	nucleotide sequence described by the general	R24896, R32452, R38544, R39672,
		R66654. R67375, R71953, R80144,
		R80145, H09238, H09239, H49089,
	2059, where both a and b correspond to the	H49178, H79086, H79087, H81170,
		H82251, H82354, H94594, H98533,
i		H98540, H98561, N23328, N32489,
	14.	N33553. N34608, N34615. N35704,
		N36791. N37062, N45951, N46374,
1		N52614, N55340, N77346, N91916,
1		W24093, W32300, W44887,
		W52202, W69110, W69235,
		W93030, W92919, AA010331,
		AA010332. AA070031, AA070335.
		AA075063, AA075062, AA085451,
		AA 102617, AA 113366, AA 113445,
1		AA133629, AA133675, AA131776,
		AA131809, AA136710, AA136808,
ļ		AA151948. AA156555, AA157722,
i		AA173681. AA181930, AA187541,
		AA187547, AA188217, AA186364,
		AA186932, AA459989, AA463983,
		AA464118, AA424144, AA424186.
		AA430453, AA216418, AA524319,
		AA535579. AA553797, AA582340,
		AA581875, AA586801, AA617881.
		AA579678. AA737057, AA736930,
		AA761601. AA807605, AA805212,
		AA809972. AA902407, AA902991,
		AA908502. AA916123, AA932301.
ļ		
		AA947441. AA991523, N89110, N89294, C03132. AA093540,
		AA094654. AA149916. AA648245.
		AA447373, AA449202. AA598721.
		AA599096. AA670234, AA722507.
		AA779120. AA843601. AA844334,
		AA868803. AA906425, AA927243.
		A1021936, A1023003, A1022112,
		A1057609, A1073779, A1088646,

		A1093414, T17246, T16420, F01940, F02536, F03439, F05682, F06177, F06249, F04246, F07152, F07995
840789	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1323 of SEQ (10 No.508, b is an integer of 15 to 1337, where both a and b correspond to the positions of nucleotide residues shown in SEQ 1D NO:508, and where b is greater than or equal to a + 14.	H23265, AA250917, AA789157, AI033562, Z38280, F08582
840790	Preferably excluded from the present invention are one or more polynucleotides comprised nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 717 of SEQ ID NO:509, b is an integer of 15 to 731. where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:509, and where b is greater than or coula to a + 14.	H87973, H88155, N66473, AA143034, AA151105, AA528233, AA584398, AA864579
840791	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 930 of SEO JD NO-510, b is an integer of 15 to 944, where both a and b correspond to the positions of nucleotide residues shown in SEO JD NO-510, and where b is greater than or orusal to a + 14.	H21100, H40810, R89801, AA563736, AA595316, AI056419
840798	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 503 of SEQ ID NO.511, b is an integer of 15 to 517, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.511, and where b is greater than or equal to a + 14.	AA206675, T18945
840802	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 5637 of SEQ ID NO.512, b is an uteger of 15 to 5651, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.512, and where b is greater than or equal to a + 14.	
840803	one or more polymucleotides comprising a mucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1922 of SEQ ID NO:513, b is an integer of 15 to 1936, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID	1798263, R01276, R01777, H87694, N46514, AA064627, AA064791, AA076077, AA076159, AA083580, AA176354, AA186922, AA188542, AA192396, AA193132, AA234329, AA262890, AA284101, AA284046, AA827592, AA635005, A1015442, A1015761
840809	Preferably excluded from the present invention are one or more polynucleotides comprising a	

	nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1163 of SEQ ID NO.514, b is an integer of 15 to 1177, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.514, and where b is greater than or equal to a + 14.	
840811	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 918 of SEQ 10 NO-515, b is an integer of 15 to 932, where both a and b correspond to the positions of nucleotide residues shown in SEQ 1D NO-515, and where b is greater than or equal to a + 14.	T60555
840813	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1145 of SEQ ID NO.516. b is an integer of 15 to 1159, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.516, and where b is greater than or equal to a + 14.	
840814	Preferably excluded from the present invention are one or more polyuculeoides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 243° of SEQ ID NO:517, b is an integer of 15 to 2451, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:517, and where b is greater than or equal to a + 14.	163362, T63686, T88888, T8889, T87870, T87455, T8425, T8425, T8425, T8425, T8425, T8425, T8425, T8426, T842
840817	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to	R24111, H13796, H39542, W87508, AA045018, AA055435, AA115239, AA137113, AA182593, AA459912, AA598757, AA772338, AI033925, AI041486, D31101
840825	Preferably excluded from the present invention are one or more polynucleotides comprising a	

	nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 3301 of SEQ ID NO.519, b is an integer of 15 to 3315, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.519, and where b is greater than or equal to a + 14.	
840826	Preferably excluded from the present invention are one or more polyunelcotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2347 of SEQ ID NO.520, b is an integer of 15 to 2361, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.520, and where b is greater than or equal to a + 14.	R12213, T79259, RS2573, H90669, 33440, Ax007443, Ax126085, Ax203195, Ax251452, Ax613266, D81536, Z24821
840827	Preferably excluded from the present invention are not or more polyunelectides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 2507 of SEQ (D NO-521, b) is an integer of 15 to 2521, where both a and b correspond to the positions of nucleotidic residues shown in SEQ ID NO-521, and where b is greater than or equal to a + 14.	
840828	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1289 of SEQ ID NO:522, b is an integer of 15 to 1303, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID	TIS6672, T88764, T87713, T87774, R35654, R35761, H57667, H58507, N80737, W07534, W81050, W80799, W95751, W95521, AA040152, AA060816, AA070448, AA213733, AA461551, AA460625, AA471038, AA59298, AA662015, AA747769, AA827708, AA830241, AA393711, AA400724, F21899, A0233732, A1033332, A1089332
840829	one or more polynucleotides comprising a nucleotide sequence described by the general	T55234, T53974, AA121362, AA121372, F17737, AA614605, AA62436, AA832106, AA939005, AA454502, AA62986, AA928745, AA993303, A1017897, A1052396
840831	Preferably excluded from the present invention are nee or more polyuculeotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1949 or SEQ ID No.524, b is an integer of 15 to 1953, where both a and b correspond to the positions of nucleotide residents shown in SEQ ID NO.524, and where b is greater than or equal to a + 14.	
840836	Preferably excluded from the present invention are	R76181, N28426, AA249749. AA249759

840837	780 of SEQ ID NO:525, b is an integer of 15 to 794, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:525, and where b is greater than or equal to a + 14.  Preferably excluded from the present invention are	T77944, R17636, H06632, W48792,
	one or more polymucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 2885 of SEQ ID NO:526, b is an integer of 15 to 2599, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:526, and where b is greater than or equal to a + 14	W49617. AA121669. AA121741. AA876369. D80125. D79630. D79663. AA479160. AA773279. Z44214
840838	Preferably excluded from the present invention are one or more polyuculeotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer hetween 1 to 1291 of SEQ ID NO-527, b is an integer of 15 to 1305. where both a and b correspond to the positions of mucleotide residues shown in SEQ ID NO-527, and where b is greater than or equal to a + 14.	TiG4743, R14614, H22783, H41174, H80646, H80683, N55490, N69823, N70603, N76977, AA036760, AA054012, AA057377, AA837761, AA987287, W04922, AA393640, AA435678, AA447554, AA448537, AA447593, AA448073, AA448092, A1080255, A1095479
840841	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b., where a is any integer between 1 to 1617 of SEQ ID NO.528, b is an integer of 15 to 1631, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.528, and where b is greater than or equal to a + 14.	RI 1201, R.11254, R.36000, R.36374, R.70709, R.70813, R.73839, R.73838, R.77816, R.78184, H.00444, H.00487, H.12294, H.12344, H.12234, H.12344, H.1334, H.14252, H.67183, H.83813, N.20077, N.23800, N.66638, N.94763, W.42581, W.425939, A.0029268, A.0025385, A.0035389, A.0056456, A.0053585, A.0053749, A.0056456, A.0058416, A.016286, A.016296, A.016853, A.046315, A.4462454, A.0464353, A.0463531, A.0463531, A.0463531, A.0463531, A.0463531, A.0463545, A.0463531, A.068553, A.068531, A.071764, A.0107365, A.0088555, A.0088555, A.00808553, A.0
840842	Preferably excluded from the present invention are note of more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1930 of TSEQ 10 No.529, b is an integer of 15 to 1944, where both a and b correspond to the positions of nucleotide residents shown in SEQ ID NO.529, and where b is greater than or equal to a + 14.	
840843	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1411 of SEQ ID NO:530, b is an integer of 15 to 1425, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID	R07636, R07683, R56490, H15484, H57022, H99251, N21556, N22947, N29473, N33077, N40267, N41499, N44647, N54167. N62284, N67127. N77575, N79824, W72340, W73971, AA035483, AA035015, AA099228, AA136670, AA136786, AA514951, AA558780, AA581821,

	14.	AA767243, AA806856, AA832308,
		AA922693, D79892, N56078,
		C14941, AA654492, AA477457.
		AA477583, AA495757, AA495817,
1		AA628697, AA628687, AA781710.
		A1004029, A1033065, A1076145.
		A1076166. A1080265. A1093765
840845	Preferably excluded from the present invention are	H85970, H86679, N54585, N76666.
	one or more polynucleotides comprising a	W79488, W94055, AA012907,
	nucleotide sequence described by the general	AA012992, AA018226, AA040388,
	formula of a-b, where a is any integer between 1 to	AA040483, AA235697, AA424720,
	1452 of SEQ ID NO:531, b is an integer of 15 to	AA424881, AA468337, AA468480,
	1466, where both a and b correspond to the	AA470354, AA505886. AA533304,
	positions of nucleotide residues shown in SEQ ID	AA535176, AA558028, AA565018.
	NO:531, and where b is greater than or equal to a +	AA568581, AA636065, AA569449,
	14.	AA570195, AA580697, AA580574,
		AA769142, AA805257, AA857633,
		AA865266, AA974247, AA976018,
		AA983662, A1000909, A1074491,
		W94054, AA216680, AA283814.
		AA283815, AA293716, AA399618.
l		AA411154, AA411153, AA430409,
		AA446547, AA446672, AA447405,
		AA447406, AA665639, Z19776,
		AA722802, AA776558, AA897739.
İ		AA773270, A1037944, A1056229,
		A1092063, Z39830, F02213,
		F04779, T65241, F12078, F09717
840847	Preferably excluded from the present invention are	T93496, T96330, R33735. R56168,
1	one or more polynucleotides comprising a	N29545, N47832, N52709,
	nucleotide sequence described by the general	AA057861, AA057051, AA256421,
	formula of a-b, where a is any integer between 1 to	AA423938, AA502373, AA594835,
	1644 of SEQ ID NO:532, b is an integer of 15 to	AA837984, AA937125, AA988563.
l	1658, where both a and b correspond to the	AA642808, C16798, AA653712,
	positions of nucleotide residues shown in SEQ ID	D11569, D11567, D11568, D11572,
	NO:532, and where b is greater than or equal to a +	AA759006
	14.	
840851	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
1	2843 of SEQ ID NO:533, b is an integer of 15 to	
	2857, where both a and b correspond to the	
	positions of nucleotide residues shown in SEO ID	
	NO:533, and where b is greater than or equal to a +	
	14.	
840853	Preferably excluded from the present invention are	T77874, T91147, T78073, T79015,
0.0055	one or more polynucleotides comprising a	H46575, H77369, N23303, N71319,
	nucleotide sequence described by the general	N71370, W30700, W68080.
	formula of a-b, where a is any integer between 1 to	W69637, AA029698, AA085548.
	1321 of SEQ ID NO:534, b is an integer of 15 to	AA100651, AA100446, AA150243,
	1335, where both a and b correspond to the	AA150317, AA179448, AA181464,
	positions of nucleotide residues shown in SEQ ID	AA187866. AA192778. AA257060.
	NO:534, and where b is greater than or equal to a +	AA257151, AA483459, AA633204, AA579660, AA744468, AA745238,
		AA806004, AA806728, AA831848.
	L	AA832183, AA916113, AA916084,

		AA919159. AA918478. AI000093.
		AA094194, AA478126, AA488653,
		AA486512, AA598836, AA723044,
1		AA844019, AA852336, AA904410,
		AA969896, A1002026, AA694486
840854	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between I to	
	2804 of SEQ ID NO:535, b is an integer of 15 to	
	2818, where both a and b correspond to the	
1	positions of nucleotide residues shown in SEQ ID	
	NO:535, and where b is greater than or equal to a +	
	14.	
840858	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
1	formula of a-b. where a is any integer between 1 to	
i	1383 of SEQ ID NO:536, b is an integer of 15 to	
	1397, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:536, and where b is greater than or equal to a +	
	14.	
840859	Preferably excluded from the present invention are	F93690. AA046782, AA047471,
	one or more polynucleotides comprising a	H70453, W22335
	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
	1219 of SEQ ID NO:537, b is an integer of 15 to	
l	1233, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:537, and where b is greater than or equal to a +	
	14.	
840863	Preferably excluded from the present invention are	
1	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
}	1002 of SEQ ID NO:538, b is an integer of 15 to	
	1016, where both a and b correspond to the	
1	positions of nucleotide residues shown in SEQ ID	
ŀ	NO:538, and where b is greater than or equal to a +	
0.400 (	14.	
840868	Preferably excluded from the present invention are	AA026007, AA053000, AA053532,
1	one or more polynucleotides comprising a	AA078821, AA078789, AA126106,
1	nucleotide sequence described by the general	AA531460, AA553445, AA622619,
1	formula of a-b, where a is any integer between 1 to	AA877899, W63615, C03141,
	1665 of SEQ ID NO:539, b is an integer of 15 to	AA486740, C75022, AA682955,
	1679, where both a and b correspond to the	D25821
	positions of nucleotide residues shown in SEQ ID	
	NO:539, and where b is greater than or equal to a +	
0.100.00	14.	
840869	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
1	1066 of SEQ ID NO:540, b is an integer of 15 to	
1	1080, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	

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	NO:540, and where b is greater than or equal to a +	
840870	Preferably excluded from the present invention are	
840870	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	2245 of SEO ID NO:541, b is an integer of 15 to	
	2259, where both a and b correspond to the	
	positions of nucleotide residues shown in SEO ID	
	NO:541, and where b is greater than or equal to a +	
	14.	
840875	Preferably excluded from the present invention are	N47871, N51132, N79772,
	one or more polynucleotides comprising a	W07271, W40335, AA659745.
	nucleotide sequence described by the general	AA454850. AA455191. AA457737,
		AA480848
	1333 of SEQ ID NO:542, b is an integer of 15 to	
	1347, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:542, and where b is greater than or equal to a +	
840876	Preferably excluded from the present invention are	H40365, N30582, N57227,
840876	one or more polynucleotides comprising a	AA099212. AA143504. AA429979.
	nucleotide sequence described by the general	AA489199, AA490948, AA503094,
		AA515940. AA515972, AA526974,
	1887 of SEO ID NO:543, b is an integer of 15 to	AA565952, AA832525, AA847119,
	1901, where both a and b correspond to the	AA975937, C16546, AA205184,
	positions of nucleotide residues shown in SEO ID	AA446121, AA446243, AA446429,
		AI093502, T25068
	14.	
840881	Preferably excluded from the present invention are	N31249, N33927, N49638,
	one or more polynucleotides comprising a	AA169623, AA885642, AA885643,
	nucleotide sequence described by the general	AA995981, D80629, AA654491
	formula of a-b, where a is any integer between 1 to	
	828 of SEQ ID NO:544, b is an integer of 15 to	
	842, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ 1D NO:544, and where b is greater than or equal to a + 14.	
840883	Preferably excluded from the present invention are	
040003	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between I to	
	764 of SEQ ID NO:545, b is an integer of 15 to	
	778, where both a and b correspond to the positions	
	of nucleotide residues shown in SEO ID NO:545,	
	and where b is greater than or equal to a + 14.	
840886	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	2128 of SEQ ID NO:546, b is an integer of 15 to	
	2142, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:546, and where b is greater than or equal to a +	
840887	Preferably excluded from the present invention are	
840887	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	

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		formula of a-b, where a is any integer between 1 to 1879 of SEQ 1D NO:547, b is an integer of 15 to 1893, where both a and b correspond to the positions of nucleotide residues shown in SEQ 1D NO:547, and where b is greater than or equal to a $\tau$ [4.	
	840891	Preferably excluded from the present invention are one or more polyuculecidise comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 616 of SEQ ID NO-548, b is an integer of 15 to 630, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-548, and where b is greater than or equal to a + 14.	AA011494. AA036641. AA040117. AA464582. AA229586. AA314441. AA557363. AA605134. AA632063. AA569111. AA731014. AA764872. AA834230. AA865217. AA865800. AA931605. AA975800. AA476216. AA477563. AA664440, AA96128. AA09907. AA994640. A1024748. AA701389
	840892	Preferably excluded from the present invention are one or more polynucleotides comprising a hucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 572 of SEQ ID NO:549, bit is an integer of 15 to 586, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:549, and where b is greater than or equal to a + 14.	T78188, H72434, H81179, N27050, N31296, N36740, N98857, W92285, A0010281, A017504, AA018836, AA053984
	840894	Preferably excluded from the present invention are nor or more polymucleoidies comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1572 of SEQ ID NO:550, b is an integer of 15 to 1586, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:550, and where b is greater than or equal to a + 14.	R13791, R18500, R19446, R19717, R26563, R14099, R37450, R41499, R44737, R44664, R49676, R41499, R44737, R44664, R49667, R41499, R44737, R44664, R49667, R41499, R44737, R44664, R49667, R41499, R44737, R44664, R49667, R41499, R4971, N22492, N25150, N28306, N20255, N5071, N50782, N80789, N50789, N80782, N80789,

		D12052, AA702844
840896	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. Where a is any integer between I to	T70566, T70837, R34229, R77683, H72423, N70430, W78960, W80454, AA157568, AA425171, A1081752, AA450124, AA450190,
	portinua of a-b, where a is any integer between 1 to 2129 of SEQ ID NO:551, b is an integer of 15 to 2143, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:551, and where b is greater than or equal to a + 14.	A1079467. D20574
840897	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1620 of SEQ ID NO.952, b is an integer of 15 to 1630, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.9552, and where b is greater than or equal to a + 114.	R08644, AA085919, AA085920, AA112589, AA291296, AA531533 AA34454, AA010556, AA631533 AA826535, AA873598, AA973899 A1000209, W22275, AA642711, AA258014, AA290836, AA291785 AA487868, AA487869, AA598896 AA732931, D20744
840898	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 264 of SEQ 1D NO.553, b is an integer of 15 to 278, where both a and b correspond to the positions of nucleotide residues shown in SEQ 1D NO.553, and where b is greater than or equal to a + 14.	
840904	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between I to 2644 of SEQ ID NO.554, b is an integer of 15 to 2658, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.554, and where b is greater than or equal to a + 14.	
840905	Preferably excluded from the present invention are one or more polymucleotides comprising a nucleotide sequence described by the general formula of a-b., where a is any integer between I to 1714 of SEQ ID NO.555, b is an integer of 15 to 1728, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.555, and where b is greater than or equal to a + 14.	
840908	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 3341 of SEQ ID NC.956, b is an integer of 15 to 3355, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NC.956, is and where b is greater than or equal to a + 14	
840909	Preferably excluded from the present invention are	N26769, N30855, N91934, W17097, W76127, AA010929, AA011317, AA026824, AA026957

	formula of a-h. where a is any integer between 1 to 1065 of SEQ 1D NO:557, b is an integer of 15 to 1079, where both a and b correspond to the positions of nucleotide residues shown in SEQ 1D NO:557, and where b is greater than or equal to a + 14.	AA06-5084. AA06-4997. AA1 13980. AA113972. AA187311. AA187412. AA491244. AA503832. AA527886. AA603076. AA767201. AA768552. AA806008. AA857130. AA862053. W69334. N90880. AA285256. AA853981. AA971357. AI015443. A1037999. A1089498. F045422
840910	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 710 of SEQ ID NO.558, b is an integer of 15 to 724, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.558, and where b is greater than or equal to a + 14.	
840912	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a b-, where a is any integer between 1 to 3111 of SEQ ID NO:559, b is an integer of 15 to 3125, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:559, and where b is greater than or equal to a + 14.	189029, 197560, 197601, T98767, 198768, R75684, R76638, R129662, R81419, H61674, H84562, N22625, R21419, H61674, H84562, N22625, N22668, N59616, N67124, N75308, N78169, W04700, W15411, W15522, W31605, W39024, A007425, A007425, A007426, A004499, AA0161382, AA161382, AA161382, AA161384, AA190884, AA190884, AA190884, AA190884, AA190884, AA190884, AA190884, AA190884, AA190884, AA190884, AA190884, AA190884, AA190884, AA190884, AA190884, AA190884, AA190884, AA190884, AA190884, AA490846, AA379085, D80599, D80940, D82547, D82557, D82494, C01801, R29401, AA490683, AA40214, AA49214, AA49214, AA49214, AA49214, AA49214, AA39264, AA49214, AA39826, A109498, A3033808, A1083706, A1073465641, AA812584, AA884056, A1004948, A3033808, A1033706, A1073405, F02232, F05999, AA7010513, AA70040514, AA8125040, AA190513, AA70040513, AA70040513, AA70040514, AA8125040, AA812513, AA70040513, AA70040514, AA8125040, AA812513, AA70040513, AA70040514, AA8125040, AA812513, AA70040513, AA70040514, AA8125040, AA812513, AA70040513, AA70040514, AA8125040, AA812514, AA812514, AA812514, AA812514, AA812514, AA812514, AA812514, AA812514, AA812514, AA812514, AA812514, AA812514, AA812514, AA812514, AA812514, AA812514, AA812514, AA8125144, AA
840916	Preferably excluded from the present invention are nor or more polymacleoides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2631 of SEQ ID NO.560, b is an integer of 15 to 2645, where both a and b correspond to the positious of nucleotide residues shown in SEQ ID NO.560, and where b is greater than or equal to a + 14.	
840917	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1703 of SEQ ID NO:561. b is an integer of 15 to 1717, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:561, and where b is greater than or equal to a + 14.	H30515, H58512, AA428216, AA429793, AA888482, AA402294, AA478415, AA665865, AI079558
840918	one or more polynucleotides comprising a	T63366, T63794, T63819, T72173, T72951, T74098, T74471, R40321, R54813, R40321, H28292, H87420,

	formula of a-b, where a is any integer between 1 to	H96805. H99895. H99896. N21575.
	2403 of SEQ ID NO:562, b is an integer of 15 to	N26498, N35550, N35899, N43971.
	2417, where both a and b correspond to the	N46316, N50289, N62230, N67269,
	positions of nucleotide residues shown in SEQ ID	N67736, N79322, W03582,
	NO:562, and where b is greater than or equal to a +	W20379, W35114, W93987,
	14.	W93993, W93961, AA002131,
		AA002085, AA010861, AA010895,
		AA032150. AA039874, AA046207,
		AA046213, AA075922, AA076246,
		AA076245, AA082698, AA100666,
		AA100665, AA102690, AA101322,
		AA115198. AA115199, AA127068,
		AA125791, AA130142, AA130164,
		AA160133, AA160152, AA181132,
		AA223399, AA223717, AA223794,
		AA225618, AA225617, AA225893,
		AA226087, AA281188, AA467866,
		AA532633, AA548553, AA548715,
		AA565709, AA595388, AA604287,
		AA610139, AA574387, AA574403,
		AA576771, AA827594, AA857936,
		AA862174, AA886789, AA894576,
		AA933053, AA961640, AA962084,
		AA971648, AI017658, AI089036,
		U48642, A1084032, W29098,
		AA041518, AA206338, AA206730,
		AA204730, AA218606, AA285284,
		AA293327, D11555, AA450117,
		AA626655, AA666366, AA679791,
		AA844183, AA883770, AA904568,
		AA904956, AA913275, AA913772,
		Z39779, F06739, F07232
840922	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1530 of SEQ 1D NO:563, b is an integer of 15 to	
	1544, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ 1D	
	NO:563, and where b is greater than or equal to a +	
840923	14.	
840923	Preferably excluded from the present invention are one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	2285 of SEO ID NO:564, b is an integer of 15 to	
	2299, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:564, and where b is greater than or equal to a +	
	14.	
840927	Preferably excluded from the present invention are	
510751	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	B50 of SEQ ID NO:565, b is an integer of 15 to	
	364. where both a and b correspond to the positions	
	of nucleotide residues shown in SEO ID NO:565.	

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	and where b is greater than or equal to a + 14.	
840928	Preferably excluded from the present invention are one or more polymucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2467 of SEQ ID NO.556. b is an integer of 15 to 2481, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.556. and where b is greater than or equal to a + 14.	R\$2991, R\$2992, AA075795, AA236859, AA237058, AA258294, AA490530, AA582199, AA594981, AA768625, AA918784, AA400122, AA400211, AA599540, AA620310, AA757241, AA853706, Z44647
840929	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1350 of SEQ 1D NO.557, b is an integer of 15 to 1364. where both a and b correspond to the positions of nucleotide residues shown in SEQ 1D NO.567, and where b is greater than or equal to a + 14.	[IG5391, TG5468, T82268, T83555, R23120, R23121, H05767, H15242, H15243, N27484, N75846, W071429, W55965, W55966, W69486, W69486, W69610, AA024481, AA035366, AA035364, AA0367328, AA045788, AA045785, AA045786, AA036786, AA045786, AA058267, AA058267, AA058267, AA058267, AA058267, AA058267, AA058267, AA058267, AA058267, AA058267, AA058267, AA058267, AA058267, AA058268, AA741887, AA058267, AA058268, AA741887, AA058266, AA769846, AA769947, AA775569, AA033167, A1090227, F02032, F11824, F09473
840930	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1592 of SEQ 1D NO:568, b is an integer of 15 to 1606, where both a and b correspond to the positions of nucleotide residues shown in SEQ 1D NO:568, and where b is greater than or equal to a + 14.	T66390, R13067, R20192, R40498, R44978, R84122, R40498, R44978, R84122, R40498, R44978, R55825, R55910, R56182, H05938, H10339, H13040, H22780, H26826, H28018, R84898, R85844, N48284, N49013, W59970, AA0129938, AA0103050, AA013086, AA0129038, AA152012, AA152015, AA152015, AA152015, AA152015, AA152015, AA152015, AA152015, AA152015, AA152016, AA152016, AA152016, AA152016, AA152016, AA152016, AA152016, AA152016, AA152016, AA152016, AA152016, AA29964, AA7947332, F18878, C04576, AA099702, C16326, AA649510, AA211287, AA211332, AA443358, AA466354, AA666536, AA993887, A1032649, A1096674, A24984, Z25108, Z35560, Z33590, T25134, Z37011, F12229, F00286, F09858
	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1337 of SEQ ID NO:569, b is an integer of 15 to 1385, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:569, and where b is greater than or equal to a + 14.	AA164298, AA164299. AA215696, AA553729, AA600053

840941	Preferably excluded from the present invention are one or more polynucleotides comprising a	T71972, T72113, N66952, AA037833, AA037834, AA503937.
	nucleotide sequence described by the general	AA514259, AA568671, C04493,
	formula of a-b, where a is any integer between 1 to	AA400259, AA703387, AA897154.
	1130 of SEQ ID NO:570, b is an integer of 15 to	AA905309. AA991791, A1091736,
1	1144, where both a and b correspond to the	A1097161, AA699338, AA699546
	positions of nucleotide residues shown in SEO ID	
	NO:570, and where b is greater than or equal to a +	
	14.	
840944	Preferably excluded from the present invention are	R53077, R53166, N66228, N66588.
	one or more polynucleotides comprising a	N98299, N98791, W52420,
	nucleotide sequence described by the general	W58722, AA054166, AA102647,
1	formula of a-b. where a is any integer between 1 to	AA101300, AA224382, AA224448.
	2740 of SEQ ID NO:571, b is an integer of 15 to 2754, where both a and b correspond to the	AA504618, AA504713, AA505965,
Į.	positions of nucleotide residues shown in SEO ID	AA577583, AA766244, AA837194, AA936390, AA938580, AA969268,
Í	NO:571, and where b is greater than or equal to a +	A1056953, Z25291, Z28894.
	14.	T25120
840945	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	2643 of SEQ ID NO:572, b is an integer of 15 to	i i
	2657, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:572, and where b is greater than or equal to a +	1
840948	14.	
840948	Preferably excluded from the present invention are one or more polynucleotides comprising a	
i	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between I to	
	2338 of SEO ID NO:573, b is an integer of 15 to	
1	2352, where both a and b correspond to the	i
	positions of nucleotide residues shown in SEQ 1D	
	NO:573, and where b is greater than or equal to a +	
	14	
840949	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to	
	314 of SEQ ID NO:574, b is an integer of 15 to	
1	328, where both a and b correspond to the positions	
}	of nucleotide residues shown in SEO ID NO:574.	
	and where b is greater than or equal to a + 14.	
840953	Prefcrably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1664 of SEQ ID NO:575, b is an integer of 15 to	
1	1678, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:575, and where b is greater than or equal to a +	
840954		T70122, R01105, R01854, R26511.
1		R50976, W39281, W88823,
1		AA190914. AA220964, AA223912,
		AA224067. AA292591. AA516293.

	2494 of SEQ ID NO:576, b is an integer of 15 to	AA888082. AA093864. AA644303.
	2508, where both a and b correspond to the	AA668429, AA680062, AA705885,
	positions of nucleotide residues shown in SEQ ID	Z25045, Z25169, Z28742, Z40110.
	NO:576, and where b is greater than or equal to a +	F06996. F00269
	14.	
840958	Preferably excluded from the present invention are	T92026. T92127. T96602, T99639.
	one or more polynucleotides comprising a	R07023, R70248, R74432, H24617,
	nucleotide sequence described by the general	H25443, H25488, H25814, H39512.
	formula of a-b. where a is any integer between 1 to	H49218, H49404. H85371, H98480.
	1517 of SEQ ID NO:577. b is an integer of 15 to	N21621, N28860, N32291, N44577,
	1531, where both a and b correspond to the	N93796, W19136, W46407,
	positions of nucleotide residues shown in SEQ ID	N89924, AA252381, AA252643,
	NO:577, and where b is greater than or equal to a +	AA230168, AA251928, AA252509,
	14.	AA280831, AA281028, AA570114,
	1	AA570316. AA688054. AA731686,
	1	AA731363, AA737178, AA743784,
		AA761782. AA805326. AA806145,
		AA806698, AA807626, AA810694.
		AA811702. AA857654. AA903433.
		AA947731. AA976482, AA977020,
		D80646, AA448459, AA722871,
		AA834947, AA844661, AA868828,
		AA912953, AA971589, Al032540,
		A1093489, Z33450
840960	Preferably excluded from the present invention are	R80950, R81055, H17096, H17714,
	one or more polynucleotides comprising a	H21600, H28031, H39514, N25283,
	nucleotide sequence described by the general	N48074, N93030, N93491,
	formula of a-b, where a is any integer between I to	AA005164, AA005250, AA037756,
	1230 of SEQ ID NO:578, b is an integer of 15 to	AA039247, AA062857, AA062864,
	1244, where both a and b correspond to the	AA159264, AA461323, AA482290,
	positions of nucleotide residues shown in SEQ ID	AA523938, AA548271, AA602298,
		AA612800, AA580232, AA878960,
	14.	AA954638, AA983694, AA948176.
		AA452852, AA452868, AA628205,
		AA629208, AA707757, AA884020.
		AI086383, AI092362, AA952907,
		F03951, F04326, F07686
840968	Prefcrably excluded from the present invention are	***************************************
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between I to	
	2511 of SEQ ID NO:579, b is an integer of 15 to	
	2525, where both a and b correspond to the	
	positions of nucleotide residues shown in SEO ID	
	NO:579, and where b is greater than or equal to a +	
	14.	
840969	Prefcrably excluded from the present invention are	
5 70707	one or more polynucleotides comprising a	1
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
	3992 of SEQ ID NO:580, b is an integer of 15 to	
	4006, where both a and b correspond to the	
	4006, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID	
	4006, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:580, and where b is greater than or equal to a +	
	4006, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:580, and where b is greater than or equal to a + 14.	
840972	4006, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:580, and where b is greater than or equal to a +	

25922. 40475. 02413, 414. 22810. 35522. 33817. 14448. 40659. 65523. 37525. 13, 26502. 694. 04,
40475, 02413, 414. 22810, 35522, 33817, 14448, 40659, 65523, 37525.
40475, 02413, 414. 22810, 35522, 33817, 14448, 40659, 65523, 37525.
22810, 35522, 33817, 14448, 40659, 65523, 37525.
22810, 35522, 33817, 14448, 40659, 65523, 37525.
22810, 35522, 33817, 14448, 40659, 65523, 37525.
35522, 33817, 14448, 40659, 65523, 37525, 13, 26502, 694,
33817, 14448, 40659, 65523, 37525, 13, 26502, 694,
40659, 65523, 37525, 13, 26502, 694,
65523. 37525. 13, 26502, 694,
37525. 13, 26502, 694,
13, 26502, 694,
13, 26502, 694,
13, 26502, 694,
26502, 694,
694,
- 1
8105,
57113,
5053,
8181, 9072,
47,
9349,
,,,,,
- 1
- 1
4

	753 of SEQ ID NO:586, b is an integer of 15 to	
	767, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:586.	
	and where b is greater than or equal to a + 14.	
840985	Preferably excluded from the present invention are one or more polynucleotides comprising a	AA469388, AA469387, AA579307, AA838301
ļ	nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to	
i	833 of SEQ ID NO:587, b is an integer of 15 to	
	847, where both a and b correspond to the positions	1
	of nucleotide residues shown in SEQ ID NO:587,	
	and where b is greater than or equal to a + 14.	
840989	Preferably excluded from the present invention are	T56570, T56419, T74072, H02553,
	one or more polynucleotides comprising a	H02636, H05217, H28221, H28270,
	nucleotide sequence described by the general	H53671, N24892, N26327, N36312,
	formula of a-b. where a is any integer between 1 to	N39771, N43761, W19923,
	2144 of SEQ ID NO:588, b is an integer of 15 to	N91268, AA132017, AA132120,
	2158, where both a and b correspond to the	AA195204, AA195313, AA196452,
	positions of nucleotide residues shown in SEQ ID	AA196696, AA227654, AA232501,
	NO:588, and where b is greater than or equal to a +	AA232165, AA429770, AA281620.
	14.	AA281676, AA468179, AA515887.
		AA533678, AA551958, AA639446,
		AA577363, AA579740, AA721360,
		AA729621, AA769527, AA814423,
		AA826344, AA903583, D81898.
		D81970. C04597, AA216528,
		AA216535, AA442781, AA452285,
		AA452436, AA709278, AA718938,
		AA771705, AA771724, AA868151, AA993850, AI033921, Z32830,
		AA952909, F11180, F11002.
		F11632
840991	Preferably excluded from the present invention are	T81125, N29118, N36444, N46478,
0,000	one or more polynucleotides comprising a	AA169588, AA169707, AA190390,
	nucleotide sequence described by the general	AA 197190, AA465591, AA569663,
	formula of a-b. where a is any integer between I to	AA572882, AA927990, AI031844,
	2285 of SEQ ID NO:589, b is an integer of 15 to	W26259, W26429, W27367,
ļ.	2299, where both a and b correspond to the	W27994, W28877, AA453067,
ļ	positions of nucleotide residues shown in SEQ ID	Z39013, Z42882
ĺ	NO:589, and where b is greater than or equal to a +	
	14.	
840996	Preferably excluded from the present invention are	R11816, T80577, R18182, R55973,
		R59293, R61044, H08547, H08548,
		H16428, AA001999, AA001722,
		AA181466, AA181638, AA530935,
		AA811299, AA774853, AA853584,
	2180, where both a and b correspond to the	T48535
	positions of nucleotide residues shown in SEQ ID	
	NO:590, and where b is greater than or equal to a +	
	14.	
840997		H81891, N27695. AA242758.
	one or more polynucleotides comprising a	AA242898, AA262282, AA463638,
		AA443047. AA677853
	formula of a-b. where a is any integer between 1 to	
	1179 of SEQ ID NO:591, b is an integer of 15 to	
	1193, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID	

	NO:591, and where b is greater than or equal to a + 14.	
840998	PreCirably excluded from the present invention are noe or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1988 of SEQ ID NO.592. b is an integer of 15 to 2002, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.592, and where b is greater than or equal to a + 14	H39956, R95173, N21653, N59206 AA126765, W2589, AA126814, AA411155, AA479348, AA663608 AA723137, AA904646, AA936314
840999	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1000 of SEQ ID NO.593, b is an integer of 15 to 1014, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.593, and where b is greater than or equal to a + 14.	T59001. R38613. AA558946. D80113. AA628763. AA931368. A1087859. A1087860. A1088020. A1088042. A1088041. Z41502. T59074. F10347
841000	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 319 of SEQ ID NO:594, b is an integer of 15 to 333, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:594, and where b is greater than or equal to a + 14.	T63281
841002	Preferably excluded from the present invention are non or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1106 of SEQ ID NO.595. b is an integer of 15 to 1120, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.595, and where b is greater than or equal to a + 14.	N75236, N79007, W33128, AA044565, AA192107, AA194732 AA430142, AA602405, AA732494 AA730246, AA767992, AA836339 A1083657, AA206775, AA205076, AA649037, AA444647, AA722661 AA993269, AA994380, A1005394, A1032012
841003	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 18 of SEQ 10 NO:596, b as integer of 15 to 532, where both a and b correspond to the positions of nucleotide residues shown in SEQ 10 NO:596, and where b is greater than or equal to a + 14.	N50091, W78173, W79236, AA758361, AA992853
841008	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1480 of SEQ [D NO:597, b is an integer of 15 to 1494, where both a and be correspond to the positions of nucleotide residues shown in SEQ [D NO:597, and where b is greater than or equal to a + 14.	T71281, T71345, R08136, R08106, R21386, R2090, R21386, R2090, R21386, R2090, R239269, R46481, R431200, R452702, R43069, R46481, R431200, R45481, R431200, R45481, R431200, R45481, R451200, R45481, R451200, R45481, R45120, R45481, R45120, R454814,

		IA.169544, AA.169773, AA.169474, AA.173030, AA.210740, AA.211832, AA.211833, AA.4220513, AA.4220563, AA.420747, AA.422080, AA.4220563, AA.420747, AA.422080, AA.492056, AA.49336, AA.492051, AA.492051, AA.594680, AA.492051, AA.554711, AS.594680, AA.692634, A.A.568997, AA.8575633, AA.932636, AA.902481, AA.969819, AA.9889802, C.01212, N87866, NS8166, C.06426, C.16205, C.16225, C.16226, C.16328, C.16346, C.16256, C.16262, C.16328, C.16346, AA.69201846, AA.693646, AA.693646, AA.5910184, AA.4931041, AA.4951041, AA.4950101, AA.4930141, AA.4951041, AA.4950101, AA.769452, AA.493084, AA.960810, AA.764524, AA.7947684, AA.7047076, AA.776452, AA.782448, AA.905622, A.10234084, F.10234088.
841013	Freferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2114 or SEQ ID No.598, b is an integer of 15 to 2188, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID No.598, and where b is greater than or equal to a +   14.	
841014	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1279 or SEQ ID NO.599, b is an integer of 15 to 1273, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.599, and where b is greater than or equal to a + 14.	R13830, R36993, R40384, R49290, R40490, R70449, H20581, H22501, H41342, W52797, W63724, AA026917, AA149462, AA223955, AA232557, AA416604, AA282009, AA284187, AA534348, N83640, W28199, AA61025, AA652459, AA707275, D19833
841015	formula of a-b, where a is any integer between I to 1225 of SEQ ID NO:600, b is an integer of 15 to 1239, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:600, and where b is greater than or equal to a + 14.	TIGOTIL T. 139204. THOUTS, TS911.5. R23975, RAVSIS, R. 60564, R4255. R80780, R80979, R80980, R81030. R81287, H48545, R8540. H8124. H85165, H86110, H92458, H92459. H95689. N45682, N48966, N64273, N67340, W73806, W79809, W79590. W73806, W79809, W79590. AA015122, AA013821, AA019812, AA01812, AA01812, AA185841, AA019803, AA15812, AA186437, AA188784. AA215296, AA256942, AA25984, AA258206, AA45999, AA65861, AA45959, AA65861, AA54692, AA673582, AA633500, AA651582, AA635809, AA651582, AA635800, AA651582, AA635800, AA651582, AA635800, AA651582, AA673582, AA673582, AA673582, AA673582, AA673582, AA673582, AA673582, AA673582, AA673582, AA673524, AA973624, AA978242, AA978242, AA978242, W38884, AA782284, AA978261, AA978242, W38882,

		IAA093374, AA095419, AA649576, AA447092, AA628724, AA635022, AA635099, AA708921, AA782622, AA845435, AA852359, AA283454, AA86493, AA905955, AI015482, AI033996, AI057611, AI041421, AI097090, T15984, F04083, F04704, A6693482
841018	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1272 of SEQ ID NO:601, b is an integer of 15 to 1286. where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:601, and where b is greater than or equal to a + 14.	*
841019	Preferably excluded from the present invention are none or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 390 of SEO ID NO:602. b is an integer of 15 to 404, where both a and b correspond to the positions of nucleotide residues shown in SEO ID NO:602, and where b is greater than or caula to a = 14.	AA248515
841024	Preferably excluded from the present invention are noe or more polynucleoides comprising a nucleotide sequence described by the general formula of a-b., where a is any integer between 1 to 1134 of SEQ ID NC:030. b is an integer of 15 to 1168, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:603, and where b is greater than or equal to a + 14.	
841025	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 444 of SEQ ID NO:004, b is an integer of 15 to 458, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:604, and where b is greater than or equal to a + 14.	AA 188466
841026	897 of SEQ ID NO:605, b is an integer of 15 to	N72911, AA148215, AA166925, AA228038, AA228148, AA483775, AA504475; AA740596, AA742681, AA808693, AA811844, Al054163, D12456, D12055, AA446237, AA599068, AI075720
841027	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to	H41598, H62017, H69575, H69596, H84745, H95065, N36218, N36430, N80053, W52484, AA010201, AA235462, AA513394, AA559062, H84833, AA574343, AA835915, AA872643, AA877236

	and where b is greater than or equal to a + 14.	
841029	Preferably excluded from the present invention are	T50950, T40351, T41210, T6465
	one or more polynucleotides comprising a	T99782, T99883, R12658, R2055
	nucleotide sequence described by the general	R48599, R48701, R20557, H105
	formula of a-b. where a is any integer between 1 to	
	1334 of SEQ ID NO:607, b is an integer of 15 to	H54291, H54369, H57072, H570
	1348, where both a and b correspond to the	H70169, H81838, H89935, H919
	positions of nucleotide residues shown in SEQ ID	N26532, N26640, N35643, N397
	NO:607, and where b is greater than or equal to a +	
	14.	N66762, N68174, N73964, N806
		N93213, N93218, N94936.
		W19558, W19581, W20315,
		W33192, W37258, W38673.
		W38998, W38807, W39086,
		W44806, W49655, W49729,
		W52842, W56034, W56019,
		W72523, W96449, W96546.
		N90712, AA022694, AA022787.
		AA033992. AA033993, AA0552
		AA128163. AA125976, AA1516
		AA228010, AA234230, AA2356
		AA460804, AA428125, AA42812
		AA244254, AA244044, AA2827
		AA459422. AA465647, AA5142
		AA524819. AA526652, AA5270
	1	AA557557, AA593780, AA59429
		AA604168, AA612788, AA62284
		AA639066, AA729180, AA7304
		AA737387, AA814201, AA8470
		AA872392, AA873523, AA8859
		AA902850, AA946931, AA96879
		AA974320, AA977816, A109493
		AA642338, AA093758. AA09483
		AA650022, AA248350, AA40242
		AA446745, AA449102, AA44953
		AA482267, AA431490, AA43169
		AA432060, AA706083, AA70622
		AA723554, AA724604, AA73282
		AA772101, AA772330, AA78160
		AA782387, AA843140, AA84348
		AA843756, AA846144, AA84615
		AA845500, AA854399, AA85509
		AA860829, AA888776, AA88900
		AI023231, AI028453, AI031906,
		AI031928, AI038365, AI051907,
		AI050990, AI056013, AI066647.
	1	AI073764, AI074709, AI076720,
		A1077283, AI040402, AI087021.
		A1088075, A1087912, A1092000,
	1	AI091592, AI092431, AI092579,
		AI095442, D20747, F05340,
		AA694556
841030	Preferably excluded from the present invention are	T85016
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	

1	722, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:608,	
	and where b is greater than or equal to a + 14.	
841031	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nuclcotide sequence described by the general	
[	formula of a-b. where a is any integer between 1 to	
	316 of SEQ ID NO:609, b is an integer of 15 to	
	330, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:609,	
	and where b is greater than or equal to a + 14.	
841034	Preferably excluded from the present invention are	
0.11054	one or more polynucleotides comprising a	
	nuclcotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
1	1852 of SEO ID NO:610, b is an integer of 15 to	
1	1866. where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ 1D	
	NO:610, and where b is greater than or equal to a + 14.	
841036		
841036	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	1
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	2162 of SEQ ID NO:611, b is an integer of 15 to	
İ	2176, where both a and b correspond to the	
İ	positions of nucleotide residues shown in SEQ ID	
	NO:611, and where b is greater than or equal to a +	
244000		
841039	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
į.	formula of a-b, where a is any integer between 1 to	
i	3605 of SEQ ID NO:612, b is an integer of 15 to	
1	3619, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
l	NO:612, and where b is greater than or equal to a +	1
	14.	
841040	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
	1413 of SEQ ID NO:613, b is an integer of 15 to	]
	1427, where both a and b correspond to the	1
	positions of nucleotide residues shown in SEQ ID	1
l .	NO:613, and where b is greater than or equal to a +	
	14.	
841048	Preferably excluded from the present invention are	N69349, W37995, W37996,
	one or more polynucleotides comprising a	AA099842, AA129834, AA134879.
	nucleotide sequence described by the general	AA136131, AA136101, AA213847,
	formula of a-b, where a is any integer between 1 to	AA278288, AA278834, AA639630,
i	1419 of SEQ ID NO:614, b is an integer of 15 to	AA743611, AA745858, AA765478,
	1433, where both a and b correspond to the	AA829501, AA830648, AA837909,
	positions of nucleotide residues shown in SEQ ID	AA877341, AA887480, AA910616,
		C01321. AA134878, AA410913,
	14.	AA441809, AA441871, AA447551.
1		AA679476. F13794
	<del></del>	

841049	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 492 of SEQ 10 NO 615. b is an integer of 15 to 506, where both a and b correspond to the positions of nucleotide residues shown in SEQ 1D NO 615, and where b is greater than or equal to a + 14.	AA206670
841050	Preferably excluded from the present invention are oncor more polymucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 2160 of SEQ [D NO-616. b is an integer of 15 to 2174, where both a and b correspond to the positions of nucleotade residues shown in SEQ ID NO-616, and where b is greater than or equal to a + 14.	R.13856. R36998, H88745, H88749. H88750. H88744. H88745, H88780, N20597. N27562, N28993, N40383, W23671, W24218. W24251; AA017276, AA054535, AA054527, AA081056. AA083641. AA165258. AA165227. AA195316. AA195474, AA504774. AA731655. AA743407, AA827654. AI073476. AA09666, AA677874. AI09801, T10385. D31353. AA700430
841052	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 3133 of SEQ ID NO.617. b is an integer of 15 to 3147, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.617, and where b is greater than or equal to a + 14.	
841054	Prefeably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2515 of SEQ ID NO.618, b is an integer of 15 to 2529, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.618, and where b is greater than or equal to a + 14.	
841055	Preferably excluded from the present invention are one or more polymuclosides comprising a mucleotide sequence described by the general formula of a-b., where a is any integer between 1 to 537 of SBQ ID NO:619, b is an integer of 15 to 551, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:619, and where b is greater than or equal to a + 14.	T86070
841056	bne or more polynucleotides comprising a mucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1721 of SEQ ID NO20.0 b is an integer of 15 to 1735, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:620, and where b is greater than or equal to a +	T65020, T66102, T74444, R12529, R54648, R36488, R34628, R52082, R52176, N58833, N75250, AA573305, AA687450, AA687507, AA811082, AA815088, AA908253, Al084103, AA489756, AA844081, AA854762, AA897722, F11861, F12468, T83267, F09506, F10088
841060	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general	

	formula of a-b, where a is any integer between 1 to 1012 of SEQ ID NO:621, b is an integer of 15 to	
	1026, where both a and b correspond to the positions of nucleotide residues shown in SEO ID	
	NO:621, and where b is greater than or equal to a +	
841061	Preferably excluded from the present invention are	W47450, AA491124
341001	one or more polynucleotides comprising a	W47430, AA491124
	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
	656 of SEQ ID NO:622. b is an integer of 15 to	
	670, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:622.	
	and where b is greater than or equal to a + 14.	
841062	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	į .
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	1
	2149 of SEQ ID NO:623, b is an integer of 15 to	
1	2163, where both a and b correspond to the	1
	positions of nucleotide residues shown in SEO ID	
	NO:623, and where b is greater than or equal to a +	
	14.	
841063	Preferably excluded from the present invention are	AA227288, AA282718
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	į.
	formula of a-b, where a is any integer between 1 to	
	587 of SEQ ID NO:624, b is an integer of 15 to	
	601, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:624,	
	and where b is greater than or equal to a + 14.	
841067	Preferably excluded from the present invention are	
1	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
	579 of SEQ ID NO:625, b is an integer of 15 to	
	593, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:625,	
	and where b is greater than or equal to a + 14.	
841074		T39947, T40903, T90518, T90617,
041074	one or more polynucleotides comprising a	T86882, T86883, R11373, T79972,
	nucleotide sequence described by the general	T83358, T83504, R16291, R18540.
1		R18728, R21852, R21872, R32969,
	2258 of SEQ ID NO:626, b is an integer of 15 to	R33513, R34056, R35153, R37578,
	2272, where both a and b correspond to the	R41528, R42089, R50812, R41528,
	positions of nucleotide residues shown in SEO ID	R42089, R63072, R63114, R66886,
1	NO:626, and where b is greater than or equal to a +	R68286, R68328, R77261, R77305,
1	14.	H04160, H04159, H09820, H09915,
		H11374, H11399, H11475, H11580,
1		H20564. H20656, H20724, H20725,
		H45913. R87571, H71492, H71493.
		H77970, H77971, H85921, H95617,
		H97011, H97137, H97973, H99201,
1		H99869. N20626. N21042, N23341,
1		N23509. N27621, N27863, N28554,
1		N28813. N33434. N35711, N36525,
		N40636. N42409. N50418. N50473.

N55217, N55526, N77009, W15345, W31916, W39297, W39437, W40562, W40586. W52515, W56373, W56584. W56673, W56738, W60072, W73328, AA001060, AA001061. AA001355, AA012936, AA013022, AA020854, AA021013, AA021245, AA021350, AA041249, AA044791, AA057517, AA070118, AA081114, AA081289, AA081518, AA081758, AA081654, AA081910, AA081807, AA083386, AA083520, AA084143, AA084169, AA084637, AA102204, AA101101, AA112305, AA112273, AA113158, AA113205, AA113234. AA113290, AA112514, AA114269, AA114292, AA121997, AA121998, AA122357, AA122358, AA127073, AA125796, AA134357, AA134635, AA148203, AA148204, AA148658, AA148659, AA156277, AA156388, AA158662, AA159027, AA160336. AA159855, AA160818, AA176261, AA176262, AA181259, AA182937, AA187516, AA186906, AA186943, AA210754, AA211829, AA223289, AA223297, AA223271, AA223898, AA223866, AA223865, AA223930, AA224002, AA226834, AA227007. AA251494, AA464562, AA464663, AA282038, AA282381, AA282799, AA282890, AA454945, AA455324, AA459366, AA459591, AA471068, AA493188, AA506956, AA515184, AA525415, AA528016, AA531574, AA557548, AA559080, AA558794. AA601508, AA602820, AA604093, AA580330, AA665041, AA688154. AA714131, AA721076, AA729400. AA730738, AA736940, AA745800, AA746251, AA747771, AA749097. AA761791, AA765245, AA769486, AA810468, AA809803, AA815070, AA815124, AA825529, AA827628. AA827818, AA830566, AA831651, AA832026, AA836109, AA856618, AA858034, AA862500, AA908700, AA916911, AA923104, AA911251, AA922814, AA948643, AA975963, AA976127, AA988496, AA995369, AI015981, D82125, N85599, N85825, W60998, N87121, N88156, C05715, C05853. AA046846, AA641779, AA070117. C20828, C21327, AA159483, AA206049, AA206104, AA206105.

841076	Prescrably excluded from the present invention are	AA206439. AA206436. AA206529 AA206577. AA206641. AA205227. AA205214. AA203495. AA205495. AA20554. AA205495. AA205495. AA20554. AA205495. AA206483. AA205707. AA205495. AA206483. AA205707. AA205495. AA2064830. AA219240. AA211937. AA218392. AA263057. AA436105. AA4346101. AA214131. AA449108. AA485456. AA48660. C74998. C.75035. C75178. C75578. C.75650. AA598408. AA600229. AA63997. AA664255. AA670477. AA45958. AA478046. AA708052. AA722236. AA788408. AA70847333. AA770433. AA778340. AA7847333. AA776473. AA788408. AA78243. AA852970. AA852969. AA853367. AA852971. AA85299. AA85299. AA85299. T10660. T11369. T10697. T17106. Z41696. T16213. T127465. F01519. F02134, T54069. F07296. F13614. F13652. AA702026
841076	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-h. where a is any integer between 1 to 857 of SEQ ID NO-627, b is an integer of 15 to 871, where both a and b correspond to the positions 871, where both a and b correspond to the positions	
841081	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b., where a is any integer between 1 to 765 of SEQ ID NO.628, b is an integer of 15 to 779, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.628, and where b is greater than or equal to a + 14.	H80595, N66964, W60868, W60944, AA554024, AA581858, AA603775, AA569390, AA721420, AA730838, AA746990, AA764955, AA824333, AA886662, AA902151, AA922977, AA931633, A1004155, C17761, AA642325, AA249456, AA401851, AA447213, AA769929, AA861067, AA688853, A1001993, AI038228, A1080577, D12310, AA699902, AA700733
841083	Preferably excluded from the present invention are one or more polynucleotides comprise nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1821 of SEQ 10 NO:629, b is an integer of 15 to 1835, where both a and be correspond to the positions of nucleotide residues shown in SEQ ID NO:629, and where b is greater than or equal to a + 14.	
841089	Preferably excluded from the present invention are one or more polynucleotides comprising a	T97583, H27459, H28283, H30123, H30163, H40493, H64399, H99038, N20188, N29090, W24593,

	formula of a-b, where a is any integer between 1 to 1083 of SEQ ID NO.630, b is an integer of 15 to 1097, where both a and b correspond to the positions of nucleotide residues shown in SEO ID NO.630, and where b is greater than or equal to a + 14.	W47194, W47309, W51990, W52638, W54628, W56312, W73795, W78984, W80386, W85832, W87750, W78767, W787574, W787679, W79594, W93594, W93490, AA010192, AA010091, AA229878, AA230283, AA508881, AA553908, H64447, AA582764, AA805299, AA877051, A1053124, A1054274, A1054274, A1054274, A1054274, A1054274, A1054274, A1054204, A10542092, A107810, A107801, A1092052, D20235, T97610, A1092052, D20235, T97610, A1092052, A1028150, A1077801, A1092052, A1028150, A1077801, A1092052, A1028150, A1077801, A1092052, A1028150, A1077801, A1092052, A1028150, A1077801, A1092052, A1028150, A1077801, A1092052, A1028150, A1077801, A1092052, A1028150, A1077801, A1092052, A1028150, A1077801, A1092052, A1028150, A1077801, A1092052, A1028150, A1077801, A1092052, A1028150, A1077801, A1092052, A1028150, A1077801, A1092052, A1028150, A1077801, A1092052, A1028150, A1077801, A1092052, A1028150, A1077801, A1092052, A1028150, A1077801, A1092052, A1028150,
841093	Preferably excluded from the present invention are one or more polymuleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1533 of SEQ (D NO-631, b is an integer of 15 to 1537, where both a and b correspond to the positions of nucleotade residues shown in SEQ ID NO-631, and where b is greater than or equal to a + 14.	
841097	PrcCrably excluded from the present invention are one or more polymaclocidise comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1887 of SEQ ID NO.632, b is an integer of 15 to 1901, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.632, and where b is greater than or equal to a + 14.	
841098	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1756 of SEQ ID NO.633, b is an integer of 15 to 1750, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.633, and where b is greater than or equal to a + 14.	T39572, R32405, R78435, R82780, H01823, W23901. AA705025
841101	Pre ferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1926 s, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.634, b as integer of 15 to 1926, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.634, and where b is greater than or equal to a + 14.	R11755, R12465, R23435. R54254, H10274, N31847, W63594, AA488942, AA581018, AA767423, N56490, W26165, N87429, AA093862, Z41898
841113	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1332 of SEQ ID NO.635, b as an integer of 15 to 1346, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.635, and where b is greater than or equal to a +	

	14.	
841115	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1570 of SEO ID NO:636. b is an integer of 15 to	
	1584, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:636, and where b is greater than or equal to a + 114.	
841116	Preferably excluded from the present invention are one or more polyuculecidisc comprising a nucleoride sequence described by the general formula of ab-, where a is any integer between 1 to 1649 of SEQ ID NO.637, b is an integer of 15 to 1663, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.637, and where b is greater than or equal to a + 14.	
841117	Preferably excluded from the present invention are one or more polyucaleotides comprising a nucleoride sequence described by the general formula of a-b, where a is any integer between 1 to 3933 of SEQ ID NO.638, b is an integer of 15 to 3947, where both a and b correspond to the positions of nucleothed residues shown in SEQ ID NO.638, and where b is greater than or equal to a + 14.	
841125	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1413 of SEQ ID NO.639, b is an integer of 15 to 1427, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.639, and where b is greater than or equal to a + 14.	[R4028, R4028, R60037, H05829], H71311, H71355, H94227, N355, H94227, N355, H71311, H71355, H94227, N365, A043642, A045098, A047015, A043642, A0470903, A150080, A186690, A196549, A0513466, AA564458, H92998, AA584288, AA587915, AA76644, AA79431, AA836837, AA946608, AA977318, A1000432, A1000474, A150015, AA487107, AA777153, AA778651, AA78720, AA824341, A103873, A1038499, A1076148, A1077415, A1040155, A1090830, T16464, AA682387
841127	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 906 of SEQ 10 NO:640, b is an integer of 15 to 920, where both a and b correspond to the positions of nucleotide residues shown in SEQ 10 NO:640, and where b is greater than or equal to a + 14.	N56381
841128	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1692 of SEQ ID NO:641, b is an integer of 15 to	

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	1706, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:641, and where b is greater than or equal to a +	
841132	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	2156 of SEQ ID NO:642, b is an integer of 15 to	
	2170, where both a and b correspond to the	
1	positions of nucleotide residues shown in SEQ ID	
	NO:642, and where b is greater than or equal to a +	
	14.	
841133	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
1	formula of a-b. where a is any integer between 1 to	
	1698 of SEQ ID NO:643, b is an integer of 15 to	
1	1712, where both a and b correspond to the	
1	positions of nucleotide residues shown in SEQ ID	
	NO:643, and where b is greater than or equal to a +	
	14.	PRILLED DOCUMENT DOCUMENT
841134	Preferably excluded from the present invention are	T74160, R06227, R06228, R20261,
1	one or more polynucleotides comprising a	N39674, AA010503, AA010502,
	nucleotide sequence described by the general	AA258312, AA258463, AA261908,
	formula of a-b, where a is any integer between 1 to	AA737428, AA775864, F12625
	1779 of SEQ ID NO:644, b is an integer of 15 to 1793, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
1	NO:644, and where b is greater than or equal to a +	
	14.	
841135	Preferably excluded from the present invention are	T87474, T81011, T98855, T99451,
	one or more polynucleotides comprising a	R12662, R20561, R35774, R20561,
	nucleotide sequence described by the general	H21581, H30226, H30799, H38312,
1	formula of a-b, where a is any integer between 1 to	R87419, R87929, H60442, H60488,
i .	2665 of SEQ ID NO:645, b is an integer of 15 to	H82962, H83193, N66578, N98838,
	2679, where both a and b correspond to the	W02116, W32577. W74585,
1	positions of nucleotide residues shown in SEQ ID	W94377, AA228054, AA228143,
l	NO:645, and where b is greater than or equal to a +	AA242795, AA252182, AA482136,
1	14.	AA491273, AA503197, AA603089,
1	1	AA740514, AA847687, AA872051,
1	1	AA904292, AA908878, AA937801,
		AA937818, AA937819, AA989229,
	1	A1081549, W27606, W28260,
		C01173, AA090299, AA292408,
		AA394244, AA430326, AA443626,
		AA678857, AA779761, AA838766,
		AA860401, AA890101, AA772701,
		AA905819, AA913578, AA913854,
		AA916557, AI073446, AI040348, AI086394, F04810, F08603
841136	Preferably excluded from the present invention are	T75313, R38678, H08805, H08881,
1		H29671, W45345, AA460481.
1		AA461049, AA514387, AA928902,
1		C06109, C15637, AI033621,
1	818 of SEQ ID NO:646, b is an integer of 15 to	F13191, F10796
	832, where both a and b correspond to the positions	
		<u> </u>

	of puplactide residues shown in SEO ID NO. (4)	
	of nucleotide residues shown in SEQ ID NO:646, and where b is greater than or equal to a + 14	
841138	Preferably excluded from the present invention are	T74162, R08056, R37869, R51362,
5.1150	one or more polynucleotides comprising a	H95451, N47377, N50420, N51509,
	nucleotide sequence described by the general	N56992, N63081, W02768,
1	formula of a-b. where a is any integer between 1 to	W74061, W78768, W81120,
	1311 of SEQ ID NO:647, b is an integer of 15 to	AA004354. AA004355. AA010410,
	1325, where both a and b correspond to the	AA011238, AA194618, AA461179,
	positions of nucleotide residues shown in SEQ ID	AA492472, AA602060, AA742194,
	NO:647, and where b is greater than or equal to a +	AA886331, AA904165, AA947316.
	14.	AA969817, C02127, AA642584,
		AA393447, AA398743, AA449962,
		AA706890, AA757113, AA777532,
1		AA812606, AA971808, AA947589,
1		A1033060, A1077473, F12626,
841139		F10242
841139	Preferably excluded from the present invention are one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
i	592 of SEQ ID NO:648. b is an integer of 15 to	
1	606, where both a and b correspond to the positions	
1	of nucleotide residues shown in SEQ ID NO:648,	
	and where b is greater than or equal to a + 14.	
841141	Preferably excluded from the present invention are	T70178, T78370, H06915, H19407,
	one or more polynucleotides comprising a	H20353, H59580. H68320,
l .	nucleotide sequence described by the general	AA282429, AA504514, AA504598,
I	formula of a-b, where a is any integer between 1 to	AA564110, AA622709, AA635277,
1	1682 of SEQ ID NO:649, b is an integer of 15 to	AA814782, AA094950. AA890363,
ľ	1696, where both a and b correspond to the	AI082674, T69852
	positions of nucleotide residues shown in SEQ ID	
	NO:649, and where b is greater than or equal to a +	
841142	Preferably excluded from the present invention are	R16159, R55052, R59723, R59832,
041142	one or more polynucleotides comprising a	R72647, R72726, H60244, N33957.
1	nucleotide sequence described by the general	N49667, N73245, N79519, N79654,
1	formula of a-b, where a is any integer between 1 to	W16510, W16960. AA032239,
1	3045 of SEQ ID NO:650, b is an integer of 15 to	AA033647, AA463305, AA280166,
1	3059, where both a and b correspond to the	AA729292, AA954720, AA988492,
	positions of nucleotide residues shown in SEQ ID	A1015581, C02527, AA393868,
1	NO:650, and where b is greater than or equal to a +	AA478565, AA478698, AA773346,
1	14.	AI032816, AI078056, Z38500,
		Z42263, R15417, AA701338
841145	Preferably excluded from the present invention are	T50010, R23613, R26166, R31656,
li di di di di di di di di di di di di di	one or more polynucleotides comprising a	R32370, H43626, H44680, R97791,
	nucleotide sequence described by the general	R97841, H96639, N36375,
1	formula of a-b, where a is any integer between I to	AA192798, AA236435, AA262943,
1	1352 of SEQ ID NO:651, b is an integer of 15 to	AA491551, AA491856, AA506260,
	1366, where both a and b correspond to the positions of nucleotide residues shown in SEO ID	AA533612, AA563684, AA639509,
1		AA193170, AA453170, AA478555, AA478689, AA628811, AA971928
1	NO:031, and where b is greater than or equal to a +	MAT 10009, MAD 20011, MAY 1928
841146	Preferably excluded from the present invention are	T49969, T55739, T55781, R44196,
0		R44196, R56223, R65770, R65861,
1		H07914, H29735, H47548, N23748,
1		N33136, N36915. N42188. N58782,
	1411 of SEQ ID NO:652, b is an integer of 15 to	AA044179, AA044364, AA056411,
	,	

	1425, where both a and b correspond to the	AA056659, AA088892, AA129553,
	positions of nucleotide residues shown in SEQ ID	AA136567, AA182691, AA460927.
	NO:652, and where b is greater than or equal to a +	AA461231. AA423834. AA423872.
	14.	AA429008, AA284199, AA502390.
1		AA503746. AA524414. AA573485.
1		AA731750, AA748643, N42149,
1		C03886, C04870, AA401440.
i		AA443282, AA453535, AA680012.
		AA885303. AA773518, AA905979.
		AA917504. AA993697, AI014527.
1		A1038343. A1039552, A1075983,
		A1040477, T15474, Z40499
841150	Preferably excluded from the present invention are	21040477, 113474, 240499
11110	one or more polynucleotides comprising a	
ì	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	1
1	600 of SEQ ID NO:653, b is an integer of 15 to	
	614, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:653,	
	and where b is greater than or equal to a + 14	
841153	Preferably excluded from the present invention are	1
	one or more polynucleotides comprising a	1
1	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	2798 of SEQ ID NO:654, b is an integer of 15 to	
	2812, where both a and b correspond to the	į.
	positions of nucleotide residues shown in SEQ ID	
	NO:654, and where b is greater than or equal to a +	
	14.	
841154	Preferably excluded from the present invention are	
1	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
i	1983 of SEQ ID NO:655, b is an integer of 15 to	
Ì	1997, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:655, and where b is greater than or equal to a +	
	14.	
841156	Preferably excluded from the present invention are	
541150	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1583 of SEQ ID NO:656, b is an integer of 15 to	
	1597, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
i	NO:656, and where b is greater than or equal to a + 14.	
841157		
841157	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
	358 of SEQ ID NO:657, b is an integer of 15 to	
1	372, where both a and b correspond to the positions	
1	of nucleotide residues shown in SEQ ID NO:657,	
	and where b is greater than or equal to a + 14.	
841159		T68013, T68157, R10329, R21935.
		R22192, R22205, R22243, R22259,

	nucleotide sequence described by the general lormula of a-b, where a is any integer between 1 to 1212 of SEQ 1D NO:658, b is an integer of 15 to 1226, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:658, and where b is greater than or could to a $\pm$	R22584, R36709, R37550, R37969, R56215, H12513, H16028, H42778, H42777, H43237, H49572, H54638, H62014, H62015, H87009, H96461, H99230, N20416, N21538, N26351, N26416, N31763, N32343, N57436,
	14.	N68981, N76396, N94358, W47130, W47102, W47702, W47103, W56010, W56319, W57999, W58082, W72901, W59099, W58082, W72901, W59099, W58082, W72901, W59094, A003708, A015374, AA0135791, AA0243433, AA0135781, AA058384, AA057888, AA35747, AA135791, AA243433, AA513298, AA526888, AA53726, AA564932, AA664937, AA664937, AA679302, AA566437, AA6793128, AA98115, F18274, AA68703, AA863102, AA864279, AA21674, AA44253, AA47073, AA570491, P22786, AA703306, AA732970, AA854540, A993128, A1023954, A1039979, A1041931, A1093431, P4697, R10328
841164	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide suppressed by the general formula of a-b, where a is any integer between 1 to 450 of SEQ ID NO:659, b is an integer of 15 to 464, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:659, and where b is greater than or could to a + 14.	
841167	Preferably excluded from the present invention are one or more polynucleotides comprising anuleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2536 of SEQ ID NO:660, b is an integer of 15 to 2549, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:660, and where b is greater than or equal to a + 114.	
841170	Preferably excluded from the present invention are one or more polywaleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer evereen i to 1148 of SEQ ID NO.661, b is an integer of 15 to 1162, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.661, and where b is greater than or equal to a + 14.	RO1156, R05766, R36565, H10217, H10272, R85306, R83508, R966, R04591, R94594, H87399, N30640, N862399, N67420, N75554, N95145, W69646, W69647, W87822, W87911, AA025260, AA025338, AA054320, AA054320, AA070779, AA132029, AA132151, AA147254, AA458883, AA459073, AA282256, AA490721, AA941213, AA5844, AA581975, AA592924, AA6176542, AA715103, AA27927, AA8716542,

		AA922921, AA931906, Al024987,
		A1031704, R29605, AA641542.
		AA210625. AA447827. AA679290.
		AA845918, AA992688, AI005398,
		AI093117
841173	Preferably excluded from the present invention are	T55223. T80732, R48806. R48918.
1	one or more polynucleotides comprising a	H04949, H04950, H39561,
	nucleotide sequence described by the general	AA039409, AA100837, AA128896.
	formula of a-b, where a is any integer between 1 to	AA143629, AA191274, AA191696.
	1164 of SEQ 1D NO:662, b is an integer of 15 to	AA223135, AA223325, AA421101.
	1178, where both a and b correspond to the	AA426158, AA910569, AA399132,
	positions of nucleotide residues shown in SEQ 1D	AA399614, AA481845, F01004
	NO:662, and where b is greater than or equal to a +	
	14.	
841176	Preferably excluded from the present invention are	T57362, T57445, N98867, W04663.
	one or more polynucleotides comprising a	W58769, AA148433, AA156103,
	nucleotide sequence described by the general	AA157650. AA157759, AA192185.
	formula of a-b, where a is any integer between 1 to	AA194358, AA491525, AA492088.
	726 of SEQ ID NO:663, b is an integer of 15 to	AA515848. AA526390, AA639064.
	740, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:663,	AA737291, AA740468, AA741404,
	and where b is greater than or equal to a + 14.	AA827641, AA862841, AA932208,
		AA974467, AA995725, F19218,
		F19304, N55638. N56464, N89217.
		AA247353, AA401334, F20491,
		F20992, F21312, AA608827,
		F22463, F22587, AA705812,
841178	7 6 11 1116 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AA889507
841178	Preferably excluded from the present invention are one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1656 of SEQ ID NO:664, b is an integer of 15 to	
	1670, where both a and b correspond to the	
	positions of nucleotide residues shown in SEO ID	
	NO:664, and where b is greater than or equal to a +	
	14	
841180	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	3350 of SEQ ID NO:665, b is an integer of 15 to	
	3364, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:665, and where b is greater than or equal to a +	
	14.	
841181	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1209 of SEQ ID NO:666, b is an integer of 15 to	
	1223, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:666, and where b is greater than or equal to a +	
	14.	
841182	Prefcrably excluded from the present invention are	
	one or more polynucleotides comprising a	

	nucleotide sequence described by the general formula of a hetre as as ny integer between 1 to 1983 of SEQ ID NO.667. b is an integer of 15 to 1997, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.667, and where b is greater than or equal to a + [4.]	
841185	Profenably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 52 of SEO ID NO-668. Is an integer of 15 to 586, where both a and b correspond to the positions of nucleotide residues shown in SEO ID NO-668, and where b is greater than or equal to a + 14.	RS2220. R70423. N35269, N40823, W42954. AA281810. AA524713, AA093155
841187	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1083 of SEQ IO NO.669, b is an integer of 15 to 1097, where both a and be correspond to the positions of nucleotide residues shown in SEQ ID NO.669, and where b is greater than or equal to a + 14.	R13459, R37369, AAR14459, AA977199, AA989199, A1004908, F19612, C15655, AA203403, AA486444, AA489297, AA677279, AA773558, AA999931, A1032801, A1034230, A1040649, A1091697
841188	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2900, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-670, b is an integer of 15 to 2900, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-670, and where b is greater than or equal to a + 14.	
841189	Preferably excluded from the present invention are one or more polynucleotides comprised neutronides comprised produced in a precised several formula of a-b, where a is any integer between 1 to 973 of SEQ ID NO-671, b as integer of 15 to 987, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-671, and where b is greater than or equal to a + 14.	AA001736. AA132627, AA568390, F19019, W26201. W69639, W69638
841192	2811 of SEQ ID NO.672, b is an integer of 15 to 2825, where both a and b correspond to the positions of mucleotide residues shown in SEQ ID NO.672, and where b is greater than or equal to a + 14.	T7159. T83900, R08468, T83730, T96865, T96866, T8508, R3300, R34895, R35402, R49701, R49701, R126757, H26856, H26871, H64272, H90029, N38824, N45452, N59621, N78174, W32994, A022663, A022744, A033910, A023403, A210790, A215315, A226888, A489044, AA552631, AA761038, AA761245, AA765843, AA802389, AA862389, AA86218, AA9613746, AA665218, AA663712, AA663712, AA6653713, AA767854, AA768545, AI024249, AI028102, AI038738, AI051578, AI0515788, AI0555731, AI0515788, AI0852582, AI0515731, AI0515783, AI0852552, AI0515783, AI0552731,

		F04009, F06746, F07761,
		AA701500, AA702733
841194	Preferably excluded from the present invention are	T74233, T88950, T89868, R11972.
	one or more polynucleotides comprising a	T84649, R18375, R27737, R27738, R37065, R42578, R42578, R61382,
	hucleotide sequence described by the general formula of a-b, where a is any integer between 1 to	R61424, R69423, R69553, R77025,
	1416 of SEO ID NO:673, b is an integer of 15 to	H00275, H00276, H08524, H08525,
	1430, where both a and b correspond to the	R97851, H81046, H81141.
	positions of nucleotide residues shown in SEQ ID	AA429044, AA429638, AA504809,
	NO:673, and where b is greater than or equal to a +	AA505159, AA552544, AA582297.
	14.	AA613016, AA627349, AA639590,
	Ti'	AA573385, AA576599, AA657983.
		AA804493, AA866130, AA866200,
		AA908911, AA908916, AA922964.
		AI088797, AA648981. AA649000,
		AA442874, AA456809, AA479714,
		AA479836, AA485736, AA486457.
		AA448038, AA431346, AA434235,
	I.	AA434321. AA683236. AA779612.
		AA885013. AA948075. AI004354,
		A1039367, A1090972, AA953777,
		T19678, F12570, F10186
841195	Preferably excluded from the present invention are one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
	1111 of SEO ID NO:674, b is an integer of 15 to	
	1125, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:674, and where b is greater than or equal to a +	
	14.	
841198	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1063 of SEQ ID NO 675, b is an integer of 15 to	
	1077, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:675, and where b is greater than or equal to a +	
841200	Preferably excluded from the present invention are	R55754, R55738, H22912, H24090,
041200	one or more polynucleotides comprising a	H29740, AA232258, AA442918,
	nucleotide sequence described by the general	Z42805, F13301
	formula of a-b, where a is any integer between 1 to	
	906 of SEQ ID NO:676, b is an integer of 15 to	
	920, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:676,	
	and where b is greater than or equal to a + 14.	
841201	Preferably excluded from the present invention are	AA932596, D80656, D81201,
	one or more polynucleotides comprising a	D81580, C15574, Al025303,
	nucleotide sequence described by the general	AA 701535
	formula of a-b. where a is any integer between 1 to	
	1233 of SEQ ID NO:677, b is an integer of 15 to	
	1247, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:677, and where b is greater than or equal to a +	
	14.	

841202	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
i	nucleotide sequence described by the general	1
	formula of a-b. where a is any integer between 1 to	
	2653 of SEQ ID NO:678, b is an integer of 15 to	
	2667, where both a and b correspond to the	
1	positions of nucleotide residues shown in SEQ ID	
1	NO:678, and where b is greater than or equal to a +	
	14.	
841209	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	938 of SEQ ID NO:679, b is an integer of 15 to	
	952, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:679,	
	and where b is greater than or equal to a + 14.	
841210	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
i	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to 2295 of SEO ID NO:680, b is an integer of 15 to	
	2309, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
i	NO:680, and where b is greater than or equal to a +	
1	14.	
841213	Preferably excluded from the present invention are	AA133947
041213	one or more polynucleotides comprising a	AA133947
	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between I to	
	437 of SEQ ID NO:681, b is an integer of 15 to	
ŀ	451, where both a and b correspond to the positions	
	of nucleotide residues shown in SEO ID NO:681,	
	and where b is greater than or equal to a + 14.	
841217		C17425
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1284 of SEQ ID NO:682, b is an integer of 15 to	
	1298, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:682, and where b is greater than or equal to a +	
	14.	
841219	Preferably excluded from the present invention are	
1	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
1	845 of SEQ ID NO:683, b is an integer of 15 to	
1	859, where both a and b correspond to the positions	
1	of nucleotide residues shown in SEQ ID NO:683,	
041000	and where b is greater than or equal to a + 14.	
841222	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to 1237 of SEQ ID NO:684, b is an integer of 15 to	
	1251, where both a and b correspond to the	

	The state of the s	
	positions of nucleotide residues shown in SEQ ID NO:684, and where b is greater than or equal to a + 14.	
841223	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 2866 of SEQ ID NO-685. bit as integer of 15 to 2600, where both a and b correspond to the positions of nucleotide residens shown in SEQ ID	Ta800. T48881, T4888. T7398. T1810. T811. T8140. T811. T8245. R14770. R31779. R42540. R42540. R42540. R5926. R7458. R78473. R78539. R74578. R78539. R42540. R5926. R74588. R78473. R78539. R78473. R78539. R78573. R78539. R78573. R78539. R78573. R78539. R78473. R78539. R78473. R78539. R78473. R78539. R78473. R78539. R78473. R78539. R78473. R78573. R78
841224	Prefeably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b., where a is any integer between 1 to 4627 of SEQ ID NO.686, b is an integer of 15 to 4641, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.686, and where b is greater than or equal to a + 114.	
841226	Preferably excluded from the present invention are one or more polynucleoides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 386 of SEQ ID NO-687, b is an integer of 15 to 400, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-687, and where b is greater than or equal to a + 14.	
841227	Preferably excluded from the present invention are not or more polymucleotides comprising a nucleotide sequence described by the general formation of a-b, where a is any integer between 1 to 2737 of SEQ ID NO-688. b is an integer of 15 to 2751, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-688, and where b is greater than or equal to a + 14.	
841228	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 955 of SEQ ID NO-689, b is an integer of 15 to 969, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-689.	

	and where b is greater than or equal to a + 14.	
841231	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	965 of SEO ID NO:690, b is an integer of 15 to	
	979, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:690,	
	and where b is greater than or equal to a + 14.	
841232	Preferably excluded from the present invention are	AA187539, AA593955, AA86546
	one or more polynucleotides comprising a	AA247589, AA292221, AA39425
	nucleotide sequence described by the general	AI090863, D20810
	formula of a-b, where a is any integer between 1 to	
	679 of SEO ID NO:691, b is an integer of 15 to	
	693, where both a and b correspond to the positions	1
	of nucleotide residues shown in SEO ID NO:691,	
	and where b is greater than or equal to a + 14.	
841233	Preferably excluded from the present invention are	T86954, T87037, T91296, R11017
	one or more polynucleotides comprising a	T78621, T79104, T84877, R00236
	nucleotide sequence described by the general	R00549, R06637, R27822, R2792
	formula of a-b, where a is any integer between I to	R35744, R45232, R45232, H2137
	1368 of SEQ ID NO:692, b is an integer of 15 to	H21411, H51867, H60283, H6059
	1382, where both a and b correspond to the	H67220, H99964, N28349, N3078
	positions of nucleotide residues shown in SEQ 1D	N41554, W47213, W47113,
	NO:692, and where b is greater than or equal to a +	W67148, W67391, AA004695,
	14.	AA004747, AA053562, AA05359
	14.	AA281060, AA287033, AA49097
		AA586578, AA720644, AA76611
		AA838572, AA907289, AA92231
		AA923031, AA977015, AA97585
		A1085503, A1085638, AA642438, AA399464, AA448558, AA44970
		AA723708, AA781911, AA84634
		AA861478, AA907377, AA90737
		AA909728, AA913796, AA99474
		AI017543, AI027687, AI042241, AI051442, Z41060
841234	Preferably excluded from the present invention are	M031442. 241000
011234	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	3084 of SEQ ID NO:693, b is an integer of 15 to	
	3098, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	1
	NO:693, and where b is greater than or equal to a +	1
	14.	
841236	Preferably excluded from the present invention are	
- 1.250	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	475 of SEQ ID NO:694, b is an integer of 15 to	
	489, where both a and b correspond to the positions	
	of nucleotide residues shown in SEO ID NO:694.	
041220	and where b is greater than or equal to a + 14.	T40324 T41100 T74064 B10060
841238		T40324, T41188, T74964, R10059
	one or more polynucleotides comprising a	T80454, T85689, R12791, R1981:
	nucleotide sequence described by the general	R24766, R24982, R33136, R3328

1		R39060, R43570, R45243, R45498.
	1830 of SEQ ID NO:695, b is an integer of 15 to	R52595, R54047, R54048, R43570,
1	1844, where both a and b correspond to the	R45243, R45498, H19030, H19321,
1	positions of nucleotide residues shown in SEQ ID	H24420, H42322, H51876, H72225.
		H83771. H83913, H99717. N26245.
	14.	N30134. N41682, N55555. N75922.
	<b>F</b>	N76940, N80564, W04682,
		W07687, W31765. W59945.
ł		W59946, W63652, W72530,
		W72085. W76498. W77868.
		AA081593, AA082766, AA084671.
ľ		AA085794, AA088881, AA102302,
Ì		AA127864, AA188946, AA188844,
		AA191212, AA196628, AA196960,
		AA631298. AA639450. AA904092,
		AA932353, AA961333, AA987825.
		AA988659, AA996270. AA205904.
		AA209353, AA393979, AA435659,
		AA453452. AA600183. AA663064.
		AA670333, AA774102, AA843676, AA854275, T03100, T03322,
	1	A1031917, A1066639, A1077924,
		A1078160, A1085089, T15361.
		T23623, T24082, Z42130, Z44535.
		F01670, F03604, F04096, F07839,
		F12754, F10361, AA700109
841239		R99939, H63661
041239	one or more polynucleotides comprising a	K99939, H03001
1	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	591 of SEQ ID NO:696, b is an integer of 15 to	
	605, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:696,	
	and where b is greater than or equal to a + 14.	
841242	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	526 of SEQ ID NO:697, b is an integer of 15 to	
	540, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:697,	
	and where b is greater than or equal to a + 14.	
841243	Preferably excluded from the present invention are	
1	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
1	482 of SEQ ID NO:698, b is an integer of 15 to	
1	496, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:698,	
	and where b is greater than or equal to a + 14.	
841248	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
Į	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	1
	973 of SEQ ID NO:699, b is an integer of 15 to	
	987, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:699.	

	and where b is greater than or equal to a + 14.	
841250	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1661 of SEQ 1D NO:700, b is an integer of 15 to	
	1675, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:700, and where b is greater than or equal to a +	
	14.	
841251	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between I to	
	542 of SEQ ID NO:701, b is an integer of 15 to	
	556, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:701,	
841254	and where b is greater than or equal to a + 14.	11765176 11807570 11056171
841254	Preferably excluded from the present invention are	AA765476, AA807570, AI056471. AI075269, T24438
	one or more polynucleotides comprising a	A1075269. 124438
	nucleotide sequence described by the general formula of a-b, where a is any integer between I to	
	1124 of SEO ID NO:702, b is an integer of 15 to	
	1138, where both a and b correspond to the	
	positions of nucleotide residues shown in SEO ID	
	NO:702, and where b is greater than or equal to a +	
	14.	
841263		H58432, AA996201, AA598598,
841203	one or more polynucleotides comprising a	AA676797
	nucleotide sequence described by the general	AA0/0/9/
	formula of a-b, where a is any integer between 1 to	
	1048 of SEQ ID NO:703, b is an integer of 15 to	
	1062, where both a and b correspond to the	
	positions of nucleotide residues shown in SEO ID	
	NO:703, and where b is greater than or equal to a +	
	14.	
841266		AA194189, Z36730
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	851 of SEQ ID NO:704, b is an integer of 15 to	
	865, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:704,	
	and where b is greater than or equal to a + 14.	
841269	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1369 of SEQ 1D NO:705, b is an integer of 15 to	
	1383, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:705, and where b is greater than or equal to a +	
	14.	
841272	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
i	formula of a-b, where a is any integer between I to	

	1141 of SEQ ID NO:706, b is an integer of 15 to	
	1155, where both a and b correspond to the	
1	positions of nucleotide residues shown in SEQ ID	
	NO:706, and where b is greater than or equal to a +	
	14.	
841273	Preferably excluded from the present invention are	H03779. H16233. AA026349.
1	one or more polynucleotides comprising a	AA192805, AA662333, F19078,
	nucleotide sequence described by the general	AA192917, AA921922, AI014904.
	formula of a-b. where a is any integer between I to	Z30103
	1403 of SEQ ID NO:707, b is an integer of 15 to	
	1417, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID NO:707, and where b is greater than or equal to a +	
!	14.	
841276	Preferably excluded from the present invention are	
841270	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
ļ	formula of a-b. where a is any integer between I to	
	934 of SEQ ID NO:708. b is an integer of 15 to	
	948, where both a and b correspond to the positions	
	of nucleotide residues shown in SEO ID NO:708.	
	and where b is greater than or equal to a + 14.	
841277	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1315 of SEQ 1D NO:709, b is an integer of 15 to	
	1329, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
i	NO:709, and where b is greater than or equal to a +	
l	14.	
841278	Preferably excluded from the present invention are one or more polynucleotides comprising a	
l	nucleotide sequence described by the general	
1	formula of a-b, where a is any integer between 1 to	
	520 of SEQ 1D NO:710, b is an integer of 15 to	
1	534, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:710,	
Į.	and where b is greater than or equal to a + 14.	
841279	Preferably excluded from the present invention are	R09746, R10170, R65983, R65982,
	one or more polynucleotides comprising a	AA159394
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1129 of SEQ ID NO:711, b is an integer of 15 to	
l	1143, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:711, and where b is greater than or equal to a +	
	14.	
841280		R09747, R10073, R33389, R33390,
		R53830, R53881. R62135, R62236,
		R68366, R68572, H00283, H00284,
		H02853, H03749, AA157541, AA158194, AA159297, AA548738,
		D82787, C02009, AA443368,
		AA446944, AA431753, AA770228.
		AA947580, AA947962, Al091589,
		T48513
	P. C	

841282   Preferably excluded from the present invention are nor more polynucleotides comparising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1022 of SEQ ID NO:713. b is an integer of 1 to 1036, where both and b correspond to the positions of nucleotide residues shown in SEQ ID NO:713. and where b is greater than or equal to a + 14.    841283   Preferably excluded from the present invention are nor or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 4429 of SEQ ID NO:714, b is an integer of 15 to 443, where both and b correspond to the positions of nucleotide residues shown in SEQ ID NO:714. and where b is greater than or equal to a + 14.    14.   15.
nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1022 of SEQ 1D NO-713, b is an integer of 15 to 1036, where both a and be correspond to the positions of nucleotide residues shown in SEQ 1D NO-713, and where b is greater than or equal to a + 14.  841283 Preferably excluded from the present invention are nor more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 4429 of SEQ 1D NO-714, b is an integer of 15 to 443, where both a and b correspond to the positions of nucleotide residues shown in SEQ 1D NO-714, and where b is greater than or equal to a + 14.  14. A034289 A27635, R30719, R3167 R31729, H17300, H44461, R336( N49466, W15235, R72711, H2088 H3236, W3168, W3286, W38287, W3286, W38287, W3286, W38287, W3286, W38286, W38287, W3286, W38
formula of a-b, where a is any integer between 1 to   C04661, AA090325, AA095234, AA096261     1022 of SEQ 10 NO-713, bit as integer of 15 to   1036, where both a and b correspond to the positions of nucleotide residues shown in SEQ 1D     NO-713, and where b is greater than or equal to a +       841283   Freferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to       4429 of SEQ 10 NO-714, bit an integer of 15 to       443, where both a and b correspond to the positions of nucleotide residues shown in SEQ 1D   NO-714, and where b is greater than or equal to a +     14.
1022 of SEQ ID NO.713, b is an integer of 15 to 1036. where both and be correspond to the positions of nucleotide residues shown in SEQ ID NO.713, and where b is greater than or equal to a + 14.    841283
positions of nucleotide residues shown in SEQ ID NO:713, and where b is greater than or equal to a + 14.  841283 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 4429 of SEQ ID NO:714, b is an integer of 15 to 443, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:714, and where b is greater than or equal to a + 14.  A033289, A043396, A035617, A040472, A0401202, A0431494, A043356, A047318, A043736, A047418
NO.713, and where b is greater than or equal to a + 14.   841283   Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 4429 of SEQ 10 NO.714, b is an integer of 15 to 443, where both a and b correspond to the positions of nucleotide residues shown in SEQ 10 NO.714, and where b is greater than or equal to a + 14.   No.714, and where b is greater than or equal to a + 14.   No.714, and where b is greater than or equal to a + 14.   No.714, and where b is greater than or equal to a + 14.   No.714, and where b is greater than or equal to a + 14.   No.714, and No.
14.
841283
one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 4429 of SEQ ID NO:714, b is an integer of 15 to 4443, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:714, and where b is greater than or equal to a + 1232, 1743, 1743, 1743, 1743, 1744, 1744, 1744, 1744, 1744, 1744, 1744, 1744, 1744, 1744, 1744, 1744, 1744, 1744, 1745, 1744,
nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 4422 of SEQ ID NO:714, b is an integer of 15 to 4443, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:714, and where b is greater than or equal to a + A034289, A035171, A040721
formula of a-h, where a is any integer between 1 to R44141, R72635, R72711, H0284 8429 of SEQ ID NO714, b is an integer of 15 to 443, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO714- and where b is greater than or equal to a + A043289, A035171, A04072 A041202, A047318, A043736, A047318, A047
4429 of SEQ ID NO:714, b is an integer of 15 to 4443, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:714, and where b is greater than or equal to a + A034289, A0035171, A0407214.   A04396, A043194, A043194, A043396, A043194, A043194, A043194, A043194, A043194, A010375, A114961, A114960, A12799, A1126880, AA15682, AA15931, A15626, AA256338, AA256434, AA256538, AA256543, AA256544, AA256543, AA256544,
4443, where both a and b correspond to the
positions of nucleotide residues shown in SEQ ID W52186, W58286, W58287, W52714, and where b is greater than or equal to a + AA034289, AA035171, AA04072 AA041202, AA043194, AA04374 AA041202, AA043194, AA04741 AA058764, AA101975, AA11279; AA114961, AA114960, AA1279; AA126880, AA156822, AA19351 AA156620, AA256338, AA25642
NO:714, and where b is greater than or equal to a + A034289, A025171, A04071 AA041202, A043194, A04334 AA043596, AA047418, AA04741 AA058764, AA101975, AA11299 AA114961, AA114960, AA12693 AA156680, AA156822, AA19531 AA195626, AA256538, AA25642
AA043596, AA047418, AA0474 AA058764, AA101975, AA1279 AA114961, AA114960, AA1279 AA126680, AA156822, AA19331 AA195626, AA256338, AA25643
AA058764. AA101975, AA11299 AA114961. AA114960. AA12792 AA12680. AA156822. AA19351 AA195626. AA256338. AA25642
AA114961, AA114960, AA12793 AA126680, AA156822, AA19351 AA195626, AA256538, AA25645
AA126680. AA156822. AA19351 AA195626. AA256538. AA25642
AA195626. AA256538, AA25642
AA468894, AA507356, AA50736
AA516516, AA534147, AA55526 AA594917, AA631771, AA56846
AA715240, AA838519, C04979,
AA707718, AA709391, AA72543
AA928191, Al024960, Al050938
AI074716, AI078311, AI087155,
A1088407, A1088592, A1089297,
Z38688, Z42494, AA683480,
AA693964
841286 Preferably excluded from the present invention are T69086, H09300. H21912, H2730
one or more polynucleotides comprising a H27307, H44750, H44751,
nucleotide sequence described by the general AA028928, AA031481, AA03146
formula of a-b, where a is any integer between 1 to AA036634, AA040943, AA04317 2085 of SEQ ID NO:715, b is an integer of 15 to AA042941, AA047185, AA05734
2099, where both a and b correspond to the AA128136, AA224030, AA28736
positions of nucleotide residues shown in SEQ ID AA287502, AA493521, AA50640
NO:715, and where b is greater than or equal to a + AA532934, AA635612, AA63575
14. AA017240, AA028927, AA04302
AA084506, AA126989, AA65368
A1040204, AI095872
841287 Preferably excluded from the present invention are
one or more polynucleotides comprising a
nucleotide sequence described by the general
formula of a-b, where a is any integer between 1 to
560 of SEQ ID NO:716, b is an integer of 15 to 574, where both a and b correspond to the positions
of nucleotide residues shown in SEO ID NO:716.
and where b is greater than or equal to a + 14.
841288 Preferably excluded from the present invention are
one or more polynucleotides comprising a
nucleotide sequence described by the general
formula of a-b, where a is any integer between 1 to
833 of SEQ ID NO:717, b is an integer of 15 to

	847, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ ID NO:717.	
	and where b is greater than or equal to a + 14	
841291	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
1	2072 of SEQ ID NO:718, b is an integer of 15 to	
}	2086, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:718, and where b is greater than or equal to a +	
	14.	
841292	Preferably excluded from the present invention are	
1	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	2404 of SEQ ID NO:719, b is an integer of 15 to	
	2418, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID NO:719, and where b is greater than or equal to a +	
	14.	
841294	Preferably excluded from the present invention are	
0.1123	one or more polynucleotides comprising a	
1	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	2527 of SEQ 1D NO:720, b is an integer of 15 to	1
	2541, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:720, and where b is greater than or equal to a +	
	14.	
841296	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
†	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	2157 of SEQ ID NO:721, b is an integer of 15 to	
	2171, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
1	NO:721, and where b is greater than or equal to a + 14.	
841298	Preferably excluded from the present invention are	
041270	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1874 of SEQ ID NO:722, b is an integer of 15 to	
1	1888, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:722, and where b is greater than or equal to a +	
	14.	
841301	Preferably excluded from the present invention are	T64693, R51679, R56608, H47224,
1	one or more polynucleotides comprising a	N50001, N79401, W19677,
1	nucleotide sequence described by the general	AA143155, H59350, H69073,
	formula of a-b, where a is any integer between 1 to	AA580509, AA487750, AA626464,
1	966 of SEQ ID NO:723, b is an integer of 15 to	T10911, T11398, T18502, T18605,
1	980, where both a and b correspond to the positions	
1	of nucleotide residues shown in SEQ ID NO:723,	F01055, F01138
	and where b is greater than or equal to a + 14.	F00003 P10503 P24F42 P2FF00
841303	Preferably excluded from the present invention are	Г80083, R18593, R24742, R27700,

	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1798 of SEQ ID NO.724. b is an integer of 15 to 1812. Where both a and be correspond to the positions of nucleotide residues shown in SEQ ID NO.724, and where b is greater than or equal to a + 14.	R18770, R43007, R43007, H15446, H15504, H2279, H23005, H24923, N94968, W30841, W39757, W40248, W84533, AA033611, AA127942, AA127976, AA132110, AA148952, AA148953, AA513119, AA524721, AA551707, AA56477, AA562707, AA814997, AA910847, AA972433, AA86610, W05640, W19569, W22703, W39996, C04698, AA096287, C75085, AA704257, A1032787, A1075657, A1086246, F04646, F08424, F00247
841304	Prefcrably excluded from the present invention are one or more polymucleotides comprising an uncleotide sequence described by the general formula of a-b, where a is any integer between 1 to 960 of SEQ ID NO.725, b is an integer of 15 to 974, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.725, and where b is creater than or equal to a 4 14.	
841305	Prefrailly excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 11540 of SEQ ID NO.726, b is an integer of 15 to 1508, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.726, and where b is greater than or equal to a + 114.	
841309	Preferably excluded from the present invention are one or more polynucleotides comprising nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1990 of SEQ ID NO.727, b is an integer of 15 to 2004, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.727, and where b is greater than or equal to a + 14.	R62724, H42483, H71117, H71118, N92184, N94614, W39661, W45047, W49839, AA046636, AA046775, AA04746, AA047503, AA 160181, AA488796, AA741383, AA746409, AA811149, AA833797, AA248881, AA95167, AA249075, AA248881, AA451825, AA454157, AA628416, AA346238, A004357
841314	Preferably excluded from the present invention are one or more polynucleotides comprising and incleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1456 of SEQ ID NO.728. b is an integer of 15 to 1470, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.728. and where b is greater than or equal to a + 14.	
841316	Preferably excluded from the present invention are one or more polynucleotides comprised nucleotide sequence described by the general formula of a-b. where a is any integer between 1 for 1/41 of SEQ ID NO.729, b is an integer of 15 to 1755, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.729, b and where b is greater than or causal to a +	

	14.	
841318	Preferably excluded from the present invention are	ł
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	423 of SEQ ID NO:730, b is an integer of 15 to	
	437, where both a and b correspond to the positions	
	of nucleotide residues shown in SEQ 1D NO:730.	
	and where b is greater than or equal to a + 14.	
841321	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
	3649 of SEQ 1D NO:731, b is an integer of 15 to	
	3663, where both a and b correspond to the	
	positions of nucleotide residues shown in SEO ID	
	NO:731, and where b is greater than or equal to a +	
	14.	
841324	Preferably excluded from the present invention are	T96831. AA258405, AA258750,
	one or more polynucleotides comprising a	H61868, AA828983, AA447894.
	nucleotide sequence described by the general	T96832
	formula of a-b, where a is any integer between I to	
	2003 of SEQ ID NO:732, b is an integer of 15 to	
	2017, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ 1D	
	NO:732, and where b is greater than or equal to a +	
	14.	
841326	Preferably excluded from the present invention are	T67169, T67170, R13400, R25161,
	one or more polynucleotides comprising a	R40914, R81373, H03937, N32627,
	nucleotide sequence described by the general	N46428, N47847, N99904,
	formula of a-b, where a is any integer between 1 to	W25263, W56840, W60329,
	1990 of SEQ ID NO:733, b is an integer of 15 to	W86618, W86691, AA062970,
	2004, where both a and b correspond to the	AA082457, AA100373, AA101448,
	positions of nucleotide residues shown in SEQ ID	AA126274, AA134708, AA150508,
	NO:733, and where b is greater than or equal to a +	AA156712, AA157068, AA156974,
	14.	AA165009, AA171491, AA171862,
		AA179767, AA180187, AA180497,
		AA179780, AA180441, AA187010,
		AA190353, AA195448, AA227391,
	i	AA258327, AA258536, AA262632,
	1	AA489087, AA489151, AA503664,
		AA523741, AA582440, AA588337,
		AA621830, AA621902, AA640554,
		AA568289, AA744568, AA761881.
		AA827997, AA847455, AA913189,
		AA913652, AA974509, U46229,
		N84275, N85488, N87880,
		AA641297, C21410, AA091107,
		AA095442, AA209417, AA219739,
		AA599903, AA676460, AA677610,
	1	AA678785, AA707112, AA725266,
		AA757097. AA779171, AA779610,
		AA852239, AA773175, AA993290,
		A1023440, A1026810, A1039755,
841328	Preferably excluded from the present invention are	A1082013, A1089353, AA773895 R93165, R93258, AA115956,
641328	one or more polynucleotides comprising a	
		AA251714. AA206198. AA676321

	nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1114 of SEQ ID NO:734 b is an integer of 15 to 1128, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:734, and where b is greater than or equal to a + 14.	
841329	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 788 of SEQ 10 NO 735. b is an integer of 15 to 772, where both a and b correspond to the positions of nucleotide residues shown in SEQ 10 NO 735. and where b is greater than or equal to a + 14.	
841330	Preferably excluded from the present invention are onc or more polyunelcodies comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1085 of SEQ 10 NO.736. b is an integer of 15 to 1099, where both a and b correspond to the positions of nucleotide residues shown in SEQ 10 NO:736. and where b is greater than or equal to a + 14.	R22883, R66728, R78688, H95005, H95113, N27178, N39923, AA037201, AA991171, U69556, AA913589, A1085980
841333	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 3205 of SEQ ID NO.737. b is an integer of 15 to 3219, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID	Ti59818, T59682, R12623, R20524, R21444, R31512, R20524, R64024, H89257, N93515, W21251, W33070, W34519, W06449, W96544, AA039907, AA043988, AA043824, AA045884, AA045885, AA043824, AA045884, AA045885, AA043826, AA045884, AA045885, AA127996, AA128092, AA176159, AA491962, AA7695337, AA60991, AA768238, A8331102, AA908948, AA167871, AA469921, AA598484, AA634649, AA939133, AA999031, Al082515, A1213086, T19281
841334	Preferably excluded from the present invention are one or more polynucleotides comprised nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 835 of SEQ 10 NO-738, b is an integer of 15 to 849, where both a and b correspond to the positions of nucleotide residues shown in SEQ 1D NO-738, and where b is greater than or equal to a + 14.	
841335	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2055 of SEQ ID NO:739, b is an integer of 15 to 2069, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:739, and where b is greater than or equal to a + 14.	R22949, R23055, R78445, W1938A, AA126774, AA133979, AA173276, AA210721, AA210826, AA287324, AA287338, AA504314, AA688155, AA829651, AA836121, AA934545, A1004681, AA205833, AA628867, A1028632, A1026835, A1075920
841336	Preferably excluded from the present invention are	

one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1553 of SEQ ID NO.740, b is an integer of 15 to 1567, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.740, and where b is greater than or equal to a + 14.  841337 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2815 of SEQ ID NO.741, b is an integer of 15 to 2829, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.741, and where b is greater than or equal to a + 14.  841339 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 912 of SEQ ID NO.742, b is an integer of 15 to 2620, where both a and b correspond to the positions of nucleotide residues shot in SEQ ID NO.742, b is an integer of 15 to 2620, where both a and b correspond to the positions of nucleotide residues shot in SEQ ID NO.742, b is an integer of 15 to 2620, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.742, b.	
formula of a-b. where a is any integer between I to 1553 of SEQ ID NO-740, b is an integer of 15 to 1567, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-740, and where b is greater than or equal to a + 14.  841337 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between I to 2815 of SEQ ID NO-741, b is an integer of 15 to 2829, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-741, and where b is greater than or equal to a + 14.  841339 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between I to 912 of SEQ ID NO-742, b is an integer of 15 to 926, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO-742.	
1553 of SEQ ID NC:740. b is an integer of 15 to 1550 r. Where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:740. and where b is greater than or equal to a + 1.4.  841337 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of 3-b. where a is any integer between 1 to 2815 of SEQ ID NO:741, b is an integer of 15 to 2829, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:741, and where b is greater than or equal to a + 1.4.  841339 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 912 of SEQ ID NO:742, b is an integer of 15 to 2926, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:742.	
1567, where both a and be correspond to the positions of nucleotide residues shown in SEQ ID NO.740, and where b is greater than or equal to a + 14.  841337 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2815 of SEQ ID NO.741, b is an integer of 15 to 2829, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.741, and where b is greater than or equal to a + 14.  841339 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 912 of SEQ ID NO.742, b is an integer of 15 to 226, where both a and b correspond to the positions of nucleotide sequence described by the general	
positions of nucleotide residues shown in SEQ ID NO/740, and where b is greater than or equal to a + 14.  841337 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of 4-b, where a is any integer between 1 to 2815 of SEQ ID NO.741, b is an integer of 15 to 2829, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.741, and where b is greater than or equal to a + 14.  841339 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 912 of SEQ ID NO.742, b is an integer of 15 to 926, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.742.	
NO.740, and where b is greater than or equal to a + 14.  841337 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2815 of SEQ ID NO.741, b is an integer of 15 to 2829, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.741, and where b is greater than or equal to a + 14.  841339 Preferably excluded from the present invention are one or more polynuc leotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 912 of SEQ ID NO.742, b is an integer of 15 to 926, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.742.	
14.  841337 Perferably excluded from the present invention are non or more polynucleorides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2815 of SEQ ID NO.741, b is an integer of 15 to 2829, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.741, and where b is greater than or equal to a + 14.  841339 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 912 of SEQ ID NO.742, b is an integer of 15 to 926, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.742.	
14.  841337 Perferably excluded from the present invention are non or more polynucleorides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2815 of SEQ ID NO.741, b is an integer of 15 to 2829, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.741, and where b is greater than or equal to a + 14.  841339 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 912 of SEQ ID NO.742, b is an integer of 15 to 926, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.742.	
841337 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2815 of SEQ ID NO.741, b is an integer of 15 to 2829, where both a and b correspond to the positions of mucleotide residues shown in SEQ ID NO.741, and where b is greater than or equal to a + 14.  841339 Preferably excluded from the present invention are not or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 912 of SEQ ID NO.742, b is an integer of 15 to 926, where both a and b correspond to the positions of nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 912 of SEQ ID NO.742, b is an integer of 15 to 926, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.742.	
one or more polynucleorides comprising a nucleotide sequence described by the general formula of a-b, whore a is any integer between 1 to 2815 of SEQ ID NO.741, b is an integer of 15 to 2829, where both a and b correspond to the positions of nucleoride residues shown in SEQ ID NO.741, and where b is greater than or equal to a + 14.  841339 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 912 of SEQ ID NO.742, b is an integer of 15 to 926, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.742.	
nucleotide sequence described by the general formula of a-b, where a is any integer between I to 2815 of SEQ ID NO:741, b is an integer of 15 to 2829, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:741, and where b is greater than or equal to a + 14.  841339 Preferably excluded from the present invention are on or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between I to 912 of SEQ ID NO:742, b is an integer of 15 to 926, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:742.	
formula of a-b, where a is any integer between I to 2815 of SEQ ID NO.741, b is an integer of 15 to 2829, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.741, and where b is greater than or equal to a + 114.  841339 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between I to 912 of SEQ ID NO.742, b is an integer of 15 to 926, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.742.	
2815 of SEQ ID NO.741, bis an integer of 15 to 2829, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.741, and where b is greater than or equal to a + 14.  841339 Preferably excluded from the present invention are nor more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 912 of SEQ ID NO.742, b is an integer of 15 to 926, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.742.	
2829, where both a and b correspond to the positions of mucleotide residues shown in SEQ ID NO:741, and where b is greater than or equal to a + 14.  841339 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 912 of SEQ ID NO:742, b is an integer of 15 to 926, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:742.	
positions of nucleotide residues shown in SEQ ID NO:741, and where b is greater than or equal to a + 14.  841339 Preferably excluded from the present invention are or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 912 of SEQ ID NO:742, b is an integer of 15 to 926, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:742,	
NO.741, and where b is greater than or equal to a + 14.  841339 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 912 of SEQ ID NO.742, b is an integer of 15 to 926, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.742.	
14.  841339 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between I to 912 of SEQ ID NO.742, b is an integer of 15 to 926, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.742.	
841339 Preferably excluded from the present invention are R05977, W07729, W85962 one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 912 of SEQ ID NO742, b is an integer of 15 to 926, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO742.	
one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 912 of SEQ ID NO.742. b is an integer of 15 to 926, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.742.	
nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 912 of SEQ ID NO.742.b is an integer of 15 to 926, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.742.	
formula of a-b, where a is any integer between 1 to 912 of SEQ ID NO.742, b is an integer of 15 to 926, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.742.	
912 of SEQ ID NO.742, b is an integer of 15 to 926, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.742.	
926, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:742,	
of nucleotide residues shown in SEQ ID NO:742,	
and where b is greater than or equal to a + 14.	
841340 Preferably excluded from the present invention are T87162, T87245, R83644, H6:	
one or more polynucleotides comprising a W86660, W87319, AA279035	
nucleotide sequence described by the general Z25793	
formula of a-b, where a is any integer between 1 to	
1003 of SEQ ID NO:743, b is an integer of 15 to	
1017, where both a and b correspond to the	
positions of nucleotide residues shown in SEO ID	
NO:743, and where b is greater than or equal to a +	
14.	
841341 Preferably excluded from the present invention are	
one or more polynucleotides comprising a	
nucleotide sequence described by the general	
formula of a-b, where a is any integer between 1 to	
347 of SEQ ID NO:744, b is an integer of 15 to	
361, where both a and b correspond to the positions	
of nucleotide residues shown in SEO ID NO:744.	
and where b is greater than or equal to a + 14.	
841342 Preferably excluded from the present invention are T61211, R31792, R31806, R3	842
one or more polynucleotides comprising a R31858, AA463633, AA2791	
nucleotide sequence described by the general AA279190, AA419400. AA48	
formula of a-b, where a is any integer between 1 to AA521039, AA528684, D8004	
1922 of SEQ ID NO:745, b is an integer of 15 to AA649649, AA651768, AA65	
1936, where both a and b correspond to the AA652129, AA293205, AA29	3206,
positions of nucleotide residues shown in SEQ ID AA443179, AA936343	
NO:745, and where b is greater than or equal to a +	
14.	
841343 Preferably excluded from the present invention are T72227, T92679, R30797, H80	5591,
1605 of SEQ 1D NO:746, b is an integer of 15 to AA112181, AA128375, AA14	
1619, where both a and b correspond to the AA146642, AA169595, AA19	4346,
one or more polymucleotides comprising a nucleonide sequence described by the general formula of a-b, where a is any integer between 1 to A058517, A4085747, A411	1873.

	Laborate Laborate Constitution	1 1 10 1 142 1 1 12 50 51 1 1 10 1 2 2
	positions of nucleotide residues shown in SEQ ID	AA194443, AA425051, AA491535,
	NO:746, and where b is greater than or equal to a =	AA491727, AA553943, AA603289.
	14.	AA604115. AA618399. AA631253.
		AA632743. AA640345. AA565849,
	i	AA657551, AA657552, AA747335,
		AA888284, AA903805, AA903460,
		AA932251, AA932650, Al074492,
		W26992, W27525, AA092612,
		AA093936, AA095079, AA495989,
		AA844221, AA845438, AA897210,
		AA928087, AA970794, Al083509,
		F04554. F00612
841347	Preferably excluded from the present invention are	R14800, R25047, R59757, W23811,
	one or more polynucleotides comprising a	Z42261
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	478 of SEQ ID NO:747, b is an integer of 15 to	
	492. where both a and b correspond to the positions	1
	of nucleotide residues shown in SEO ID NO:747.	1
841352	and where b is greater than or equal to a + 14.	T20/21 T47/02 T47/02 T50214
641332	Preferably excluded from the present invention are	T39621, T47602, T47603, T50214,
	one or more polynucleotides comprising a	T50262, T56171, T59994, N69976,
	nucleotide sequence described by the general	N70656, N92997, N98578,
	formula of a-b, where a is any integer between 1 to	W19319, W21208, W25470,
	589 of SEQ ID NO:748, b is an integer of 15 to	W38523. W79772, W79108,
	603, where both a and b correspond to the positions	N90073, AA082281, AA083720,
	of nucleotide residues shown in SEQ ID NO:748,	AA102538, AA111985, AA130519,
	and where b is greater than or equal to a + 14.	AA130518, AA131208, AA155889,
	and where o is greater than or equal to a . 1 i.	AA156193, AA157132, AA157188,
		AA159333, AA159346, AA159404,
		AA159443, AA166964, AA167042,
	1	AA425520, AA228398, AA228399,
		AA230245, AA420475, AA470507,
		AA470518, AA470554, AA470564,
		AA470784, AA480624, AA482721.
		AA483943, AA484448, AA492057,
		AA492060, AA501534, AA501688,
		AA501705, AA502485, AA503438,
		AA507807, AA522865, AA523150,
		AA523460, AA525078, AA531038,
		AA532886, AA534182, AA535479,
		AA541295, AA548431, AA559139,
		AA558899. AA559895, F16130,
		F17508. AA582864, AA582977,
		AA594817, AA600752, AA602218,
		AA603293, AA603440, AA614252,
		AA614593, AA627143, AA631240.
		AA639097, AA640665, AA569026,
		AA569795, AA573527, AA578708,
		AA578892, AA579475, AA580548,
		AA568421, AA654902, AA655027.
		AA657423, AA657485, AA657617,
		AA657745, AA657873, AA658089,
		AA659338, AA661580, AA662328.
		AA662945, AA664742, AA714342,
		AA721063, AA729626, AA729804,
	1	AA730697, AA737143, AA746051.

		AA814722, AA826140, AA838575.
		AA856900. AA857814. AA876960.
		AA879008, AA879230, AA886873.
		AA887104. AA888489. AA908834.
1		AA922670. AA907193. AA931585.
		AA939179, AA969542, AA978087.
		AA988995, A1000230, A1002473.
		A1056486, A1066507, D45301,
		A1089666, A1094699, N84532,
		N84765, N86425, N89209, C14372.
		C14508, C14515, C14530, C14555, C14605, C14770, C14788, C14791,
		AA640945, C14863, C14868,
		AA090649, C14935, C15107.
i		C15223, C15471, C15682, C15775.
		C15870, C15930, C15935,
		AA131294, AA643297, AA643298,
	<u> </u>	AA643790, AA650598, AA652545.
	1	AA653802. AA653817. AA216075.
		AA216113. AA216340. AA249201.
		F20411. F20721. AA457776,
		AA478848, AA478850, AA479946.
		AA489323, AA609264, AA625634,
		AA669489, AA457581, F22821,
		AA845104, T25813, T26333,
		AA968927, A1080006, A1080259,
1		D19689, T50162, T59495, F13766, AA694377
841353	Preferably excluded from the present invention are	N70887, N80736, W06893,
041333	one or more polynucleotides comprising a	W07533, W86227, W86228,
	nucleotide sequence described by the general	AA101268, AA877981, D79871,
ı	formula of a-b, where a is any integer between 1 to	D81890, AA206735, AA205181,
1	2031 of SEQ ID NO:749, b is an integer of 15 to	AA205255, AA205303, AA447456,
1	2045, where both a and b correspond to the	AA454967, AA454966, AA778336,
	positions of nucleotide residues shown in SEQ ID	AA970143, T18602, D21013.
1	NO:749, and where b is greater than or equal to a +	
	14.	F06030, F04572
841354	Preferably excluded from the present invention are	H08639, W86219, AA136665,
1	one or more polynucleotides comprising a	AA136781, AA256507, AA256508,
	nucleotide sequence described by the general	AA603334, AA830237, AA978040,
	formula of a-b, where a is any integer between 1 to 1130 of SEO ID NO:750, b is an integer of 15 to	AA987352, AA733094, T10254, Z40940
1	1144, where both a and b correspond to the	240940
l .	positions of nucleotide residues shown in SEO ID	
	NO:750, and where b is greater than or equal to a +	
	14.	
841360	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	1
	nucleotide sequence described by the general	1
	formula of a-b, where a is any integer between 1 to	
	1584 of SEQ ID NO:751, b is an integer of 15 to	1
	1598, where both a and b correspond to the	1
	positions of nucleotide residues shown in SEQ 1D	1
ĺ	NO:751, and where b is greater than or equal to a +	
041277	14.	
841366	Preferably excluded from the present invention are	i .
	one or more polynucleotides comprising a	1

	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between I to	
	1471 of SEQ ID NO:752, b is an integer of 15 to	
	1485, where both a and b correspond to the	
	positions of nucleotide residues shown in SEO ID	
	NO:752, and where b is greater than or equal to a +	
	14.	
841405		
841405	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between I to	
	1742 of SEQ ID NO:753, b is an integer of 15 to	
	1756, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:753, and where b is greater than or equal to a +	
	14.	
841526	Preferably excluded from the present invention are	
011520	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	1
		1
	formula of a-b. where a is any integer between I to	
	1781 of SEQ ID NO:754, b is an integer of 15 to	
	1795, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:754, and where b is greater than or equal to a +	
	14.	
841712	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between I to	l .
	1266 of SEQ ID NO:755, b is an integer of 15 to	
	1280, where both a and b correspond to the	
	positions of nucleotide residues shown in SEO ID	1
		ł.
	NO:755, and where b is greater than or equal to a + 14.	
841860		
841800	Preferably excluded from the present invention are	1
	one or more polynucleotides comprising a	1
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between I to	
	3651 of SEQ ID NO:756, b is an integer of 15 to	
	3665, where both a and b correspond to the	1
	positions of nucleotide residues shown in SEQ ID	
	NO:756, and where b is greater than or equal to a +	ļ
	14.	1
842042	Preferably excluded from the present invention are	R27775, R80938, R81040, H25849,
	one or more polynuclcotides comprising a	H30556, H39898, H43685, H84621
	nucleotide sequence described by the general	H85342, H85863. H97623, N20020,
	nucleotide sequence described by the general formula of a-b, where a is any integer between I to	H85342, H85863. H97623, N20020, N24066, N27150. N34137, N74869,
	nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1207 of SEQ ID NO:757, b is an integer of 15 to	H85342, H85863. H97623, N20020, N24066, N27150. N34137. N74869, AA013261. AA018222, AA056554,
	nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1207 of SEQ ID NO.757, b is an integer of 15 to 1221, where both a and b correspond to the	H85342, H85863. H97623, N20020, N24066, N27150. N34137. N74869, AA013261. AA018222, AA056554, AA075594. AA111995. AA176737,
	nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1207 of SEQ ID NO:757, b is an integer of 15 to 1221, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID	H85342, H85863. H97623, N20020 N24066, N27150. N34137. N74869 AA013261. AA018222, AA056554 AA075594. AA111995. AA176737, AA196064. AA514335. AA731163.
	nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1207 of SEQ ID NO:757, b is an integer of 15 to 1221, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:757, and where b is greater than or equal to a +	H85342, H85863. H97623, N20020, N24066, N27150. N34137. N74869, AA013261. AA018222, AA056554, AA075594. AA111995. AA176737, AA196064. AA514335. AA73163. AA732094. AA769189. AA877155.
	nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1207 of SEQ ID NO:757, b is an integer of 15 to 1221, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID	H85342, H85863. H97623, N20020, N24066, N27150. N34137. N74869, AA013261. AA018222, AA056554, AA075594. AA111995. AA176737, AA196064. AA514335. AA73163. AA732094. AA769189. AA877155.
	nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1207 of SEQ ID NO:757, b is an integer of 15 to 1221, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:757, and where b is greater than or equal to a +	H85342, H85863, H97623, N20020, N24066, N27150, N34157, N74869, AA013261, AA018222, AA066554, AA075594, AA111995, AA176737, AA196064, AA514335, AA731163, AA732094, AA769189, AA877155, AA887521, AA887647, AA915962, A01017806, C03991, AA648526,
	nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1207 of SEQ ID NO:757, b is an integer of 15 to 1221, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:757, and where b is greater than or equal to a +	H85342, H85863. H97623, N20020, N24066, N27150. N34137, N74869, AA013261. AA018222, AA056554, AA075594. AA111995. AA176737, AA196064. AA514335. AA731163. AA732094. AA769189. AA877155. AA887521. AA887647. AA915962.
	nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1207 of SEQ ID NO:757, b is an integer of 15 to 1221, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:757, and where b is greater than or equal to a +	H85342, H85863, H97623, N20020 N24066, N27150, N34137, N74869 AA013261, AA018222, AA056554, AA075594, AA111995, AA176737, AA196064, AA514335, AA731163, AA732094, AA769189, AA877155, AA887521, AA887647, AA915962, A1017806, C03891, AA648526, AA411503, AA890618, T03509,
842453	nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1207 of SEQ ID NO:757, b is an integer of 15 to 1221, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:757, and where b is greater than or equal to a +	H85342, H85863, H97623, N20020, N24066, N27150, N34137, N74869, AA013261, AA018222, AA056554, AA075594, AA111995, AA176737, AA196064, AA514335, AA731163, AA732094, AA569189, AA877155, AA887521, AA887647, AA915962, M01017806, C03891, AA648326,

842635	nucleotide sequence described by the general formula of a-b, where a is any unteger between 1 to 617 of SEQ ID NO.758. b is an integer of 15 to 631, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.758, and where b is greater than or equal to a = 14. Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 2482 of SEQ ID NO.759, b is an integer of 15 to 2496, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.759, and where b is greater than or equal to a +	
842927	14 Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a 4n where a is an integer between 1 to 2034 of SEQ ID NO:760. bis an integer of 15 to 2048, where both and be correspond to the positions of nucleotide residues shown in SEQ ID NO:760, and where b is greater than or equal to a + 14.	R09031. T99454, R02759. R86215, H59062. AA193428, AA193451, AA235140. Z45646
842988	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between I to 1/43 of SEQ ID NO.761, b is an integer of 15 to 1/757, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.761, and where b is greater than or equal to a + 14.	R18558, R33656, R33770, R41425, R41425, R6229, R62299, H00711, H03631, H03535, H11769, H12026, H16764, H16873, H15462, H2540, H25761, H25802, H26331, N27708, N30531, N31507, N36527, N48776, N30531, N31507, N36527, N48776, N30531, N31501, N3151597, A4169477, N30531, N3151597, A4169477, AA150284, AA150386, AA421931, AA458926, AA850528, AA831459, AA458926, AA850528, AA361459, AA862368, AA946706, A01071010, D00611, D80610, D79660, 278342, C21502, AA428166, AA446595, AA452707, AA718983, AA722005, AA861846, A1025497, A1051843,
843080	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b., where a is any integer between 1 to 4434 of SEQ ID NO.762, b is an integer of 15 to 4448, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.762, and where b is greater than or equal to a = 14.	
843237	Preferably excluded from the present invention are not or more polymiclocidisc comprising a nucleotide sequence described by the general formula of a-b. where is any integer between I to 2876 of SEQ ID NO.753, b is an integer of I5 to 2890, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID	

	NO:763, and where b is greater than or equal to a = 14.	
843381	Preferably excluded from the present invention are one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1689 of SEQ ID NO:764. b is an integer of 15 to	
	1703. where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:764, and where b is greater than or equal to a +	
843718	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between I to	
	248 of SEQ ID NO:765, b is an integer of 15 to 262, where both a and b correspond to the positions	
	of nucleotide residues shown in SEO ID NO:765.	
	and where b is greater than or equal to a + 14.	-
843823	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b. where a is any integer between 1 to	
	3058 of SEQ ID NO:766, b is an integer of 15 to	
	3072, where both a and b correspond to the positions of nucleotide residues shown in SEO ID	
	NO:766, and where b is greater than or equal to a +	
	14.	
844056	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to 1307 of SEO ID NO:767, b is an integer of 15 to	
	1321, where both a and b correspond to the	
	positions of nucleotide residues shown in SEO ID	
	NO:767, and where b is greater than or equal to a +	
	14.	
844325		H13033, H19108, W17353
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1518 of SEQ ID NO:768, b is an integer of 15 to 1532, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:768, and where b is greater than or equal to a +	
	14.	
844344	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	2555 of SEQ ID NO:769, b is an integer of 15 to	
	2569, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:769, and where b is greater than or equal to a +	
844368	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	

841408	nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1623 of SEQ ID NO.770, b is an integer of 15 to 1637, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.770, and where b is greater than or equal to a + 11.  Preferably excluded from the present invention are	R25739, R25848, R26585, R26669.
	2471 of SEQ ID NO:771, b is an integer of 15 to 2485, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID	R18347. R43382. R43382. R82340. R82389. H2120. H22213. H86274. H36550. H36658. N48230. N49046. N37714. AA019818. AA122109. AA152348. AA152349. AA158712. H36273. AA595817. C04219. AA012911. AA995417. C04219. AA018291, AA42061. AA442163. AA724417. AA923788. T03807. A1038239. A1051425. Z39949. F013166. F056663. F0689. F10884
844508	Preferably excluded from the present invention are one or more polynucleotides comprised purcleotides expensed in pulceotide sequence described by the general formula of a-b. where a is any integer between 1 to 418 of SEQ ID NO:772, b is an integer of 15 to 422, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:772, and where b is greater than or could to a 4 14.	AA043997
844867	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general	R23270, R24465, H26326, N67923, AA181941, AA187906, AA687695, AA740438, AA879229, D81116, D81140
845000	Preferably excluded from the present invention are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1003 of SEQ 10 NO.774, b. is an integer of 15 to 1019, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.774, and where b is greater than or equal to a + 14.	R22590, H92298, W04657, W31581, W37780, W39080
845281	one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 2334 of SEQ ID NO.775, b is an integer of 15 to 2248, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.775, and where b is greater than or equal to a + 14.	192139. T93566. T94885. T94933. R16017. R1737. R25556, R25791. R26489. R26511. R46713. R46790. R26713. R46790. R46713. R367961. R395951. R395951. R39595. R36764. R39762. R36781. H39871. H398

		AA102442, AA101126, AA150932,
1		AA150901, AA176661, AA176888.
		AA223622, AA461513, AA177059,
1		AA229768, AA230089, AA493436.
		AA516126, AA528397, AA551566.
		AA583433, AA610274, AA613338.
		AA665090, AA744004, AA744054.
		AA770662, AA829788, AA865467,
İ		AA864190. AA878328. AA922466.
		AA932042, AA933800, AA935845,
		AA973926, AA977231, AA988822,
		AA992503, AA995390, AI082412,
		A1094769, D82171, N85713,
1		W25970, W28703, C00856.
ł		C04813, C05281, AA648060,
I		AA650341, AA651636, AA452618,
		AA453239, AA626597, AA670375,
		AA679935. AA722603, AA770004.
		AA846222, AA890020, AA927073,
		AA992606, A1034036, A1056096,
1		T16991, T23523, T19071, F01728,
		F02334, F05468, F06081, F04719,
1		F08503
845288	Preferably excluded from the present invention are	
	one or more polynucleotides comprising a	
	nucleotide sequence described by the general	
	formula of a-b, where a is any integer between 1 to	
	1591 of SEQ ID NO:776, b is an integer of 15 to	
	1605, where both a and b correspond to the	
	positions of nucleotide residues shown in SEQ ID	
	NO:776, and where b is greater than or equal to a +	
	14.	
845750	Preferably excluded from the present invention are	T54633, T54715, T59162, T59200,
	one or more polynucleotides comprising a	T65736, T65810, R13590, R71878,
	nuclcotide sequence described by the general	H71816, H71817, H75311, H78458,
	formula of a-b, where a is any integer between 1 to	H93320, H93493, N49894, N49998,
	1794 of SEQ ID NO:777, b is an integer of 15 to	N79774, N93610, W07272,
1	1808, where both a and b correspond to the	W25098, W25505, W79872,
	positions of nucleotide residues shown in SEQ ID	W80977, W81080, AA010657.
	NO:777, and where b is greater than or equal to a +	AA010658, AA024456, AA024672,
	14.	AA053380, AA053095, AA148051,
1	1	AA196637, AA196919, AA223159,
	1	AA234295, AA262985, AA425287,
		AA425492, AA551815, AA552317,
1		AA614604, AA617675, AA639422,
		AA570121, AA568154, AA847251,
1	1	AA983567, AI015662, C00349,
		N87765, C02759, C03904, C04889,
		C05299, C05572, AA248273,
		AA290679, AA402015, AA402941.
		AA411366, AA411367, AA411431,
		AA411547, AA481876, AA482058,
		A1032553, A1038761, A1077405,
		A1088638, T16907, T16906,
		D31160, D31471, F02456, F02921,
		F02975, F06184, F06650
845809	Preferably excluded from the present invention are	

	one or more polynucleoides comprising a nucleotide sequence described by the general formula of a-b. where a is any integer between 1 to 1470 of \$EQ ID NO.778. b is an integer of 15 to 1484, where both a and b correspond to the positions of nucleotide residues shown in \$EQ ID NO.778. and where b is greater than or equal to a + 14.	
846077	Preferably excluded from the present invention are one or more polynucleotides comprised in uncleotide sequence described by the general formula of a-b, where a is any integer between 1 to 1329 of SEQ ID NO.779. b is an integer of 15 to 1343, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO.779. and where b is greater than or equal to a +	

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## Polynucleotide and Polypeptide Variants

The present invention is directed to variants of the polynucleotide sequence disclosed in SEQ ID NO:X or the complementary strand thereto, and/or the cDNA sequence contained in a cDNA clone contained in the deposit.

The present invention also encompasses variants of the prostate and prostate cancer polypeptide sequence disclosed in SEQ ID NO:Y, a polypeptide sequence encoded by the polynucleotide sequence in SEQ ID NO:X, and/or a polypeptide sequence encoded by the cDNA in the related cDNA clone contained in the deposit.

"Variant" refers to a polynucleotide or polypeptide differing from the polynucleotide or polypeptide of the present invention, but retaining essential properties thereof. Generally, variants are overall closely similar, and, in many regions, identical to the polynucleotide or polypeptide of the present invention.

The present invention is also directed to nucleic acid molecules which comprise, or alternatively consist of, a nucleotide sequence which is at least 80%, 85%, 90%, 95%, 96%, 97%, 98%, 99% or 100%, identical to, for example, the nucleotide coding sequence in SEQ ID NO:X or the complementary strand thereto, the nucleotide coding sequence of the related cDNA contained in a deposited library or the complementary strand thereto, a nucleotide sequence encoding the polypeptide of SEO ID NO:Y, a nucleotide sequence encoding a polypeptide sequence encoded by the nucleotide sequence in SEO ID NO:X, a nucleotide sequence encoding the polypeptide encoded by the cDNA in the related cDNA contained in a deposited library, and/or polynucleotide fragments of any of these nucleic acid molecules (e.g., those fragments described herein). Polypeptides encoded by these nucleic acid molecules are also encompassed by the invention. In another embodiment, the invention encompasses nucleic acid molecules which comprise or alternatively consist of, a polynucleotide which hybridizes under stringent hybridization conditions, or alternatively, under low stringency conditions, to the nucleotide coding sequence in SEQ ID NO:X, the nucleotide coding sequence of the related cDNA clone contained in a denosited library, a nucleotide sequence encoding the polypeptide of SEO ID NO:Y, a nucleotide sequence encoding a polypeptide sequence encoded by the nucleotide sequence in SEO ID NO:X, a nucleotide sequence encoding the polypeptide encoded by the cDNA in the related cDNA clone contained in a deposited library, and/or polynucleotide fragments of any of these nucleic acid molecules (e.g., those fragments described herein). Polynucleotides which

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hybridize to the complement of these nucleic acid molecules under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention, as are polypeptides encoded by these polynucleotides.

The present invention is also directed to polypeptides which comprise, or alternatively consist of, an amino acid sequence which is at least 80%, 85%, 90%, 95%, 96%, 97%, 98%, 99% or 100% identical to, for example, the polypeptide sequence shown in SEQ ID NO:Y, a polypeptide sequence encoded by the nucleotide sequence in SEQ ID NO:X, a polypeptide sequence encoded by the cDNA in the related cDNA clone contained in a deposited library, and/or polypeptide fragments of any of these polypeptides (e.g., those fragments described herein). Polynucleotides which hybridize to the complement of the nucleic acid molecules encoding these polypeptides under stringent hybridization conditions, or alternatively, under lower stringency conditions, are also encompassed by the invention, as are polypeptides encoded by these polynucleotides.

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By a nucleic acid having a nucleotide sequence at least, for example, 95% "identical" to a reference nucleotide sequence of the present invention, it is intended that the nucleotide sequence of the nucleic acid is identical to the reference sequence except that the nucleotide sequence may include up to five point mutations per each 100 nucleotides of the reference nucleotide sequence encoding the polypeptide. In other words, to obtain a nucleic acid having a nucleotide sequence at least 95% identical to a reference nucleotide sequence, up to 5% of the nucleotides in the reference sequence may be deleted or substituted with another nucleotide, or a number of nucleotides up to 5% of the total nucleotides in the reference sequence may be inserted into the reference sequence. The query sequence may be, for example, an entire sequence referred to in Table 1, an ORF (open reading frame), or any fragment specified as described herein.

As a practical matter, whether any particular nucleic acid molecule or polypeptide is at least 80%, 85%, 90%, 95%, 96%, 97%, 98% or 99% identical to a nucleotide sequence of the present invention can be determined conventionally using known computer programs. A preferred method for determining the best overall match between a query sequence (a sequence of the present invention) and a subject sequence, also referred to as a global sequence alignment, can be determined using the FASTDB computer program based on the algorithm of Brutlag et al. (Comp. App. Biosci. 6:237-245 (1990)). In a sequence alignment the query and subject sequences are both DNA sequences. An RNA sequence can be

compared by converting U's to T's. The result of said global sequence alignment is in percent identity. Preferred parameters used in a FASTDB alignment of DNA sequences to calculate percent identity are: Matrix=Unitary, k-tuple=4. Mismatch Penalty=1, Joining Penalty=30. Randomization Group Length=0. Cutoff Score=1. Gap Penalty=5. Gap Size Penalty 0.05. Window Size=500 or the length of the subject nucleotide sequence, whichever is shorter.

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If the subject sequence is shorter than the query sequence because of 5' or 3' deletions, not because of internal deletions, a manual correction must be made to the results. This is because the FASTDB program does not account for 5' and 3' truncations of the subject sequence when calculating percent identity. For subject sequences truncated at the 5' or 3' ends, relative to the query sequence, the percent identity is corrected by calculating the number of bases of the query sequence that are 5' and 3' of the subject sequence, which are not matched/aligned, as a percent of the total bases of the query sequence. Whether a nucleotide is matched/aligned is determined by results of the FASTDB sequence alignment. This percentage is then subtracted from the percent identity, calculated by the above FASTDB program using the specified parameters, to arrive at a final percent identity score. This corrected score is what is used for the purposes of the present invention. Only bases outside the 5' and 3' bases of the subject sequence, as displayed by the FASTDB alignment, which are not matched/aligned with the query sequence, are calculated for the purposes of manually adjusting the percent identity score.

For example, a 90 base subject sequence is aligned to a 100 base query sequence to determine percent identity. The deletions occur at the 5' end of the subject sequence and therefore, the FASTDB alignment does not show a matched/alignment of the first 10 bases at 5' end. The 10 unpaired bases represent 10% of the sequence (number of bases at the 5' and 3' ends not matched/total number of bases in the query sequence) so 10% is subtracted from the percent identity score calculated by the FASTDB program. If the remaining 90 bases were perfectly matched the final percent identity would be 90%. In another example, a 90 base subject sequence is compared with a 100 base query sequence. This time the deletions are internal deletions so that there are no bases on the 5' or 3' of the subject sequence which are not matched/aligned with the query. In this case the percent identity calculated by FASTDB is not manually corrected. Once again, only bases 5' and 3' of the subject sequence which are not matched/aligned with the query sequence are manually corrected for. No other

manual corrections are to made for the purposes of the present invention.

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By a polypeptide having an amino acid sequence at least, for example, 95% "identical" to a query amino acid sequence of the present invention, it is intended that the amino acid sequence of the subject polypeptide is identical to the query sequence except that the subject polypeptide sequence may include up to five amino acid alterations per each 100 amino acids of the query amino acid sequence. In other words, to obtain a polypeptide having an amino acid sequence at least 95% identical to a query amino acid sequence, up to 5% of the amino acid residues in the subject sequence may be inserted, deleted, (indels) or substituted with another amino acid. These alterations of the reference sequence may occur at the amino or carboxy terminal positions of the reference amino acid sequence or anywhere between those terminal positions, interspersed either individually among residues in the reference sequence or in one or more contiguous groups within the reference sequence.

As a practical matter, whether any particular polypeptide is at least 80%, 85%, 90%, 95%, 96%, 97%, 98% or 99% identical to, for instance, the amino acid sequence in SEO ID NO:Y or a fragment thereof, the amino acid sequence encoded by the nucleotide sequence in SEQ ID NO:X or a fragment thereof, or the amino acid sequence encoded by the cDNA in the related cDNA clone contained in a deposited library, or a fragment thereof, can be determined conventionally using known computer programs. A preferred method for determing the best overall match between a query sequence (a sequence of the present invention) and a subject sequence, also referred to as a global sequence alignment, can be determined using the FASTDB computer program based on the algorithm of Brutlag et al. (Comp. App. Biosci.6:237- 245(1990)). In a sequence alignment the query and subject sequences are either both nucleotide sequences or both amino acid sequences. The result of said global sequence alignment is in percent identity. Preferred parameters used in a FASTDB amino acid alignment are: Matrix=PAM 0, k-tuple=2, Mismatch Penalty=1, Joining Penalty=20, Randomization Group Length=0, Cutoff Score=1, Window Size=sequence length, Gap Penalty=5, Gap Size Penalty=0.05, Window Size=500 or the length of the subject amino acid sequence, whichever is shorter.

If the subject sequence is shorter than the query sequence due to N- or C-terminal deletions, not because of internal deletions, a manual correction must be made to the results. This is because the FASTDB program does not account for N- and C-terminal truncations of the subject sequence when calculating global percent identity. For subject sequences